

TE
662
-A3

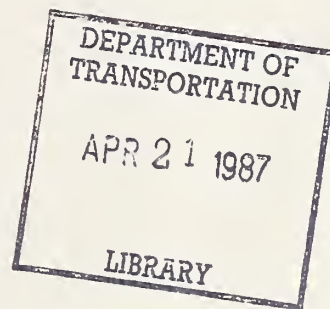
Report No. FHWA/RD-80/049

FHWA-RD-
80-049

EASIBILITY OF DEMAND INCENTIVES FOR NON-MOTORIZED TRAVEL

Appendixes

February 1981



Prepared for:

FEDERAL HIGHWAY ADMINISTRATION
OFFICES OF RESEARCH AND DEVELOPMENT
ENVIRONMENTAL DIVISION
WASHINGTON, D. C. 20590

1. Report No. FHWA/RD-80/049	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle FEASIBILITY OF DEMAND INCENTIVES FOR NON-MOTORIZED TRAVEL. APPENDIXES		5. Report Date February 1981	6. Performing Organization Code
		8. Performing Organization Report No.	
7. Author(s) Perrol O. Robinson		10. Work Unit No. (TRAIS) 31E3042	11. Contract or Grant No. DOT-OS-60183
9. Performing Organization Name and Address Barton-Aschman Associates, Inc., and Cambridge Systematics, Inc. 1610 South 6th St. Minneapolis, MN 55454		13. Type of Report and Period Covered Appendixes October 1976 - April 1978	
		14. Sponsoring Agency Code	
12. Sponsoring Agency Name and Address Federal Highway Administration U.S. Department of Transportation Washington, D.C. 20590			
15. Supplementary Notes FHWA Contract Manager: John C. Fegan, (HRS-41). OST Contract Manager: Sonya Hill.			
16. Abstract Appendixes to Final Report FHWA/RD-80/048.			
17. Key Words		18. Distribution Statement	
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified	21. No. of Pages 351
		22. Price	

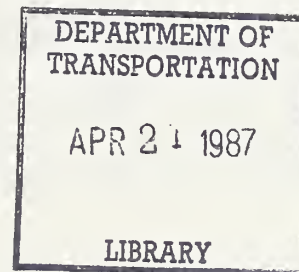


Table of Contents

	<u>Page</u>
Appendix A. Tabulation of Survey Results - All Sites	1
Appendix B. Stated Preferences for Alternative Scenarios ...	283
Appendix C. Factor Analysis for Perceived Mode Attributes ..	321



City of Austin

Founded by Congress, Republic of Texas, 1839

Municipal Building, Eighth at Colorado, P.O. Box 1088, Austin, Texas 78767 Telephone 512/477-6511

October 15, 1978

Dear Resident of Austin:

The City of Austin is cooperating in a U.S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your shopping and personal business trips only. We are interested in your opinion of the transportation services available to you for shopping and personal business trips. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800-328-2933.

Sincerely,

Carole Keeton McClellan
Mayor

CKM:cd
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME FOR THE PURPOSE OF SHOPPING OR PERSONAL BUSINESS. PLEASE EXCLUDE ALL MAJOR GROCERY SHOPPING TRIPS.

1. What is the nearest intersection or street address of the place of your most recent shopping or personal business trip from home?

(nearest intersection or street address)

(city)

2. A list of specific shopping and personal business trip purposes is given below. Please check the one trip purpose that best describes your most recent shopping or personal business trip from home (exclude major grocery shopping trips). (CHECK ONE ONLY)

33.3 % () Minor grocery shopping (one bag or less) 8.0 () eat meal 4.3 () other professional
13.0 () clothing/shoes 3.0 () post office 6.5 () bank
8.5 () drugs/bookstore 2.5 () library/museum 2.5 () laundry/dry cleaner/shoe repair
3.0 () hardware/Florist/liquor 3.8 () medical/dental 1.8 () barber/beauty shop

NO ANSWER: 0

14.5 () other (please specify)

3. Other than the above stop, did you make any additional stops on the way to and from your shopping/ personal business destination? (CHECK ONE)

53.4 () none (If you answered NONE, go to question 5.)

30.0 () one

10.8 () two

5.5 () three or more

0.3 NO ANSWER

4. Did any of the additional stops between your home and your primary shopping/personal business destination require you to travel more than one mile out of the way?

19.8 () Yes

35.5 () No

NO ADDL. STOPS/NO ANSWER: 53.7

5. Approximately how far was it directly from your home to your primary shopping/personal business destination (one way)?

7.8 () 2 blocks (1/2 mile or less)

19.3 () 2 to 4 miles

22.0 () 3 to 6 blocks (1/2 to 1 mile)

8.0 () 4 to 6 miles

20.5 () 1/2 to 1 mile

4.8 () 6 to 10 miles

15.8 () 1 to 2 miles

1.5 () over 10 miles

0.3 NO ANSWER

6. How many separate parcels, bags or packages were you carrying? (CHECK ONE)
 18.0 (%) none 46.6 () one 24.3 () two 14.8 () three or more 0.3 NO ANSWERS
7. How many persons (other than yourself) were with you on this shopping or personal business trip?
 total _____ (number) Children 12 years of age and under _____ (number)
 MEAN: 0.71 MEAN: 0.62
8. Where is this place where you went shopping or on personal business located?
 58.8 () central city 39.0 () suburban NO ANSWER: 2.2
9. Specify the type of area where you went on your shopping/personal business trip. (CHECK ONE)
 9.8/(-) central business district (downtown metropolitan area) 4.3/16.5 regional shopping center
 24.5/23.3 neighborhood business district or shopping center 2.3/11.8 office park/professional building
 16.3/3.8 college campus 2.5/3.0 other _____ (please specify)
 1.3 NO ANSWER
10. What was the date of this most recent trip? VARIES (month/day)
11. At approximately what time of day did you make this trip to your shopping/personal business destination?
 6.3 () before 9 a.m. () 10 a.m. to 2 p.m.
 () 7 a.m. to 9 a.m. 44.6 () 2 p.m. to 6 p.m.
 () 6 a.m. to 9 a.m. 17.3 () after 6 p.m.
 31.8 () 9 a.m. to 2 p.m. NO ANSWER
12. How did you make the trip to this shopping/personal business destination? (CHECK ONE)
 23.3 () walked all the way 0.3 () motorcycle
 55.3 () drove a car 5.5 () bicycle
 9.0 () passenger in a car - () moped (motorized bicycle)
 5.5 () bus 0.8 () taxi
 - () train, subway 0.3 () other _____ (please specify)
 - NO ANSWER
- 12a. If you used a bus or transit, how did you get to your bus or transit stop?
 - () bicycle - () drove and parked
 - () taxi - () passenger in a car
 5.5 () walk - () other _____ (please specify)

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR MOST RECENT SHOPPING OR PERSONAL BUSINESS TRIP WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent shopping or personal business trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For the above trip, we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never used it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to my shopping or personal business destination by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending upon how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree, you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under agree, indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your shopping or personal business trip varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful ratings of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF WALK

Was your most recent shopping or personal business destination located less than 2 miles from your home?

63.7 %) Yes

36.3 () No

If your answer is YES, please rate the statements below concerning how you would feel about walking to this destination even if you did not walk there on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Ans.
1. Walking to this destination is pleasant because I can enjoy the scenery and surroundings.	23.5 (%)	36.4 ()	18.4 ()	8.6 ()	3.1 ()	-
2. When shopping or on a personal business trip, it is convenient to stop and do errands when walking.	19.2 ()	46.7 ()	11.4 ()	18.0 ()	4.3 ()	0.4
3. I can pick up and go anytime I like when I walk to go shopping or on personal business trips.	23.1 ()	52.3 ()	7.8 ()	13.7 ()	2.7 ()	0.4
4. Walking to this shopping/personal business destination is tiring.	7.8 ()	23.9 ()	14.1 ()	40.4 ()	11.8 ()	-
5. Walking to my shopping/personal business destination is dangerous because of the heavy traffic.	5.5 ()	22.0 ()	16.5 ()	45.9 ()	10.6 ()	0.4
6. When on a shopping/personal business trip with children, it is inconvenient to walk.	12.9 ()	29.8 ()	33.8 ()	17.6 ()	5.1 ()	0.8
7. I cannot rely on walking to this destination in rainy weather.	20.8 ()	46.3 ()	6.7 ()	23.1 ()	2.7 ()	0.4
8. I can easily carry packages when I walk while I am on a shopping/personal business trip.	5.1 ()	32.1 ()	13.3 ()	33.3 ()	10.2 ()	-
9. It is uncomfortable to walk to this destination because of rough and bumpy walking surfaces.	2.0 ()	15.7 ()	13.7 ()	53.3 ()	14.9 ()	0.4
10. I can get to my shopping/personal business destination quickly when I walk.	6.7 ()	33.3 ()	14.9 ()	34.5 ()	10.2 ()	0.2
11. I worry about being mugged or assaulted when I walk to my shopping/personal business destination.	2.7 ()	16.1 ()	16.9 ()	44.7 ()	19.2 ()	0.4
12. I worry about being injured in an accident when I walk to my shopping/personal business destination.	1.2 ()	15.3 ()	18.0 ()	49.8 ()	15.3 ()	0.4
13. It is relaxing to walk to my shopping/personal business destination.	14.5 ()	47.5 ()	18.4 ()	15.3 ()	3.9 ()	0.4
14. I dislike walking to this shopping/personal business destination because of the many delays at intersections.	- ()	12.5 ()	18.0 ()	56.4 ()	12.5 ()	0.4
15. Walking to this shopping/personal bus. destination is unsafe due to lack of pathways separated from motorized traffic.	2.7 ()	20.8 ()	14.5 ()	49.5 ()	12.5 ()	-
16. Walking to this shopping/personal bus. destination is dangerous because motorists are inconsiderate of pedestrians.	10.6 ()	28.2 ()	20.8 ()	34.5 ()	5.9 ()	-
17. When walking to this shopping/personal bus. destination, I worry about perspiring or soiling my clothes.	3.9 ()	18.8 ()	19.2 ()	46.7 ()	11.4 ()	-
18. Walking to this shopping/personal business destination gives healthful exercise.	42.4 ()	50.3 ()	2.7 ()	3.5 ()	0.8 ()	0.4

YOUR RATING OF CAR

When using a car, are you usually a:

72.2(9%) car driver

27.8 () car passenger

If you are usually a car driver, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about driving on this trip.

If you are usually a car passenger, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about going to this destination as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Ans
1. Traveling by car to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	() 5.8	() 31.3	() 35.8	() 21.8	() 4.8	-
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by car.	() 24.8	() 54.6	() 4.8	() 12.3	() 3.5	-
3. I can pick up and go anytime I like when I travel by car on shopping or on personal business trips.	() 30.0	() 51.7	() 5.5	() 9.0	() 3.3	0.5
4. Traveling by car to this shopping/personal business destination is tiring.	() 2.3	() 12.5	() 19.0	() 49.2	() 17.0	--
5. Traveling by car to my shopping/personal business destination is dangerous because of the heavy traffic.	() 4.8	() 22.5	() 22.3	() 44.6	() 5.8	-
6. When on a shopping/personal business trip with children, it is inconvenient to go by car.	() 3.5	() 9.5	() 30.0	() 37.5	() 19.0	0.5
7. I cannot rely on traveling by car to this destination in rainy weather.	() 1.5	() 6.0	() 4.8	() 54.6	() 32.8	0.3
8. I can easily carry packages when I travel by car while I am on a shopping/personal business trip.	() 45.5	() 50.9	() 1.3	() 2.0	() 0.3	-
9. It is uncomfortable to travel by car to this shopping/personal business destination because of rough or bumpy road surfaces.	() 2.5	() 10.8	() 12.8	() 58.4	() 15.5	-
10. I can get to my shopping/personal business destination quickly when I travel by car.	() 33.8	() 51.3	() 4.8	() 9.0	() 0.8	0.3
11. I worry about being mugged or assaulted when I travel by car to my shopping/personal business destination.	() 0.5	() 3.0	() 10.8	() 50.1	() 35.3	9.3
12. I worry about being injured in an accident when I travel by car to my shopping/personal business destination.	() 3.8	() 16.8	() 24.5	() 41.1	() 13.3	0.5
13. It is relaxing to travel by car to my shopping/personal business destination.	() 6.8	() 28.8	() 25.8	() 22.3	() 6.3	-
14. I dislike traveling by car to this shopping/personal business destination because of the many delays at intersections.	() 4.0	() 22.3	() 24.8	() 41.8	() 6.8	0.3
15. Parking the car at this destination is expensive.	() 5.5	() 7.8	() 10.8	() 44.4	() 31.5	-
16. After parking the car, I must walk a long distance when I go to this shopping/personal business destination.	() 2.5	() 9.0	() 9.5	() 53.7	() 25.0	0.3
17. I worry about the car being stolen or vandalized at this destination.	() 1.3	() 6.8	() 14.3	() 57.1	() 20.5	-
18. It is inexpensive to buy and operate a car.	() 5.0	() 5.3	() 9.8	() 32.8	() 47.1	-
19. Parking the car is no trouble when on this shopping/personal business trip.	() 17.0	() 42.2	() 12.5	() 4.5	() 13.3	0.5

YOUR RATING OF BICYCLE

Was your most recent shopping or personal business destination located less than 4 miles from your home?

81.2 () Yes

18.8 () No

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination, even if you don't own a bicycle or didn't ride a bicycle on your last trip to this destination.

If your answer is NO, please go to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	ANS.
1. Bicycling to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	16.0()	43.7()	18.5()	16.9()	4.3()	0.6
2. When shopping or on a personal business trip, it is convenient to stop and do errands, when riding a bicycle.	9.8()	38.2()	13.5()	30.2()	6.8()	1.5
3. I can pick up and go anytime I like when I ride a bicycle to go shopping or on personal business trips.	13.5()	55.1()	12.0()	14.8()	4.0()	0.6
4. Riding a bicycle to this shopping/personal business destination is tiring.	5.5()	26.5()	18.5()	38.7()	10.2()	0.6
5. Riding a bicycle to my shopping/personal business destination is dangerous because of the heavy traffic.	25.2()	42.2()	13.2()	16.6()	2.5()	0.3
6. When on a shopping/personal business trip with children, it is inconvenient to ride the bicycle.	37.2()	39.1()	14.8()	4.6()	3.7()	0.6
7. I cannot rely on riding a bicycle to this destination in rainy weather.	29.8()	59.5()	6.2()	7.4()	1.8()	0.3
8. I can easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	2.5()	13.5()	81.6()	52.0()	23.1()	0.3
9. It is uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	4.3()	27.1()	24.6()	37.9()	5.5()	0.6
10. I can get to my shopping/personal business destination quickly, when I ride a bicycle.	11.1()	47.7()	13.5()	22.5()	4.9()	0.3
11. I worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	0.9()	8.9()	21.8()	50.8()	16.9()	0.9
12. I worry about being injured in an accident when I ride a bicycle to my shopping/personal business destination.	15.4()	41.0()	16.0()	21.8()	5.5()	0.3
13. It is relaxing to ride by bicycle to my shopping/personal business destination.	18.0()	35.4()	25.5()	26.2()	4.6()	0.3
14. I dislike traveling by bicycle to this shopping/personal bus. destination because of many delays at intersections.	3.4()	18.8()	24.3()	45.5()	8.0()	0.6
15. Bicycling to this shopping/personal bus. destination is unsafe due to lack of bike paths separated from motorized traffic.	30.8()	24.9()	12.0()	17.8()	2.2()	0.3
16. Going by bicycle to this destination is dangerous because motorists are inconsiderate of bicyclists.	24.9()	38.7()	23.7()	10.2()	2.2()	0.3
17. When bicycling to this shopping/personal business destination, I worry about perspiring or soiling my clothes.	5.8()	28.6()	23.1()	35.1()	6.8()	0.3
18. Riding a bicycle gives healthful exercise.	54.8()	41.8()	2.2()	- ()	0.9()	0.3
19. Parking, locking and unlocking my bicycle at this destination is no trouble.	14.5()	41.2()	16.0()	20.9()	7.1()	0.3
20. I worry about my bicycle being stolen at this shopping/personal business destination.	11.7()	33.3()	17.2()	32.6()	4.6()	0.6
21. It is inexpensive to buy and operate a bicycle.	22.8()	48.6()	12.3()	12.6()	3.1()	0.6

YOUR RATING OF BUS (or transit)

Is bus service available between your home and this shopping or personal business destination?

57.2 (%) Yes

42.8 (%) No

If your answer is YES, please rate the statements below concerning how you would feel about going to this destination by bus even if you didn't choose bus on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree
1. Going to this destination by bus is pleasant because I can enjoy the scenery and surroundings.	6.1 ()	33.6 ()	32.8 ()	22.3 ()	4.8 () 0.4
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by bus.	2.2 ()	11.8 ()	12.7 ()	48.8 ()	24.5 () -
3. I must schedule my trips in advance when I travel by bus to go shopping or on personal business trips.	14.8 ()	60.3 ()	12.2 ()	11.4 ()	1.3 () -
4. Traveling by bus to this shopping/personal business destination is tiring.	4.8 ()	28.8 ()	25.3 ()	35.5 ()	5.2 () 0.4
5. Traveling by bus to my shopping/personal business destination is dangerous because of the heavy traffic.	()	5.7 ()	14.8 ()	60.7 ()	18.8 () -
6. When on a shopping/personal business trip with children, it is inconvenient to take the bus.	8.3 ()	25.3 ()	32.4 ()	28.8 ()	5.2 () -
7. I cannot rely on taking a bus to this destination in rainy weather.	3.9 ()	24.5 ()	21.0 ()	41.0 ()	9.6 () -
8. I can easily carry packages when I travel by bus while I am on a shopping/personal business trip.	5.7 ()	38.9 ()	17.9 ()	28.8 ()	8.3 () 0.4
9. It is uncomfortable to travel to this destination by bus because of rough or bumpy road surfaces.	3.1 ()	7.4 ()	21.8 ()	55.0 ()	12.7 () -
10. I can get to my shopping/personal business destination quickly when I travel by bus.	3.5 ()	17.9 ()	19.7 ()	41.9 ()	16.6 () 0.4
11. I worry about being mugged or assaulted when I travel by bus to my shopping/personal business destination.	3.1 ()	4.8 ()	18.3 ()	57.6 ()	15.0 () -
12. I worry about being injured in an accident when I travel by bus to my shopping/personal business destination.	1.3 ()	2.2 ()	14.0 ()	62.4 ()	19.7 () 0.4
13. It is relaxing to travel by bus to my shopping/personal business destination.	5.7 ()	30.6 ()	30.5 ()	26.2 ()	6.1 () 0.9
14. I dislike traveling by bus to this shopping/personal bus destination because of the many delays at intersections.	6.6 ()	24.5 ()	25.8 ()	35.2 ()	7.0 () 0.9
15. I must walk a long distance to get to and from the bus when I go to this shopping/personal business destination.	5.2 ()	19.2 ()	17.0 ()	45.5 ()	12.2 () 0.9
16. There is generally a long wait involved when I travel by bus to this shopping/personal business destination.	17.5 ()	34.1 ()	26.6 ()	19.7 ()	1.7 () 0.4
17. When traveling by bus to this shopping/personal business destination I worry about perspiring or soiling my clothes.	1.3 ()	10.5 ()	17.5 ()	56.3 ()	14.0 () 0.4
18. It is inexpensive to travel by bus to this shopping/personal business location.	21.0 ()	55.4 ()	11.8 ()	7.9 ()	2.6 () 1.3

**WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL FOR SHOPPING/
PERSONAL BUSINESS TRIPS.**

1. Imagine that only BUS, WALK BICYCLE, and CAR (driver or passenger) were available for your most recent shopping/personal business trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. (If bus service was not available for your

shopping/personal business trip, please rank the three remaining alternatives.)

<u>RANKED 1</u>	<u>RANKED 2</u>	<u>RANKED 3</u>	<u>RANKED 4</u>	<u>NO ANSWER</u>
4.8 () bus	24.9	15.3	24.5	30.9
18.8 () walk	20.0	33.7	24.5	3.0
13.5 () bicycle	36.4	34.0	12.3	3.8
62.2 () car (driver or passenger)	15.5	13.3	7.0	2.0

2. We would like to know how often you use each of the following means of travel for shopping/personal business trips from home. Place an X under your best estimate of the number of days you have used each means of travel during the last 30 days.

	<u>Did not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO ANS.</u>
bus	() 62.3	() 16.8	() 4.3	() 3.0	() 1.8	() 6.8	5.0
walk	() 20.5	() 24.8	() 13.0	() 5.8	() 6.3	() 25.6	4.0
drive a car	() 13.8	() 16.8	() 11.5	() 12.3	() 12.0	() 30.8	2.8
passenger in car	() 16.8	() 38.7	() 14.3	() 10.8	() 6.3	() 6.8	6.3
bicycle	() 67.5	() 10.3	() 6.3	() 2.5	() 2.8	() 5.8	4.8
other _____ (specify)	() -	() 2.3	() 0.8	() 0.5	() 0.8	() 1.8	-

3. Assume that on your next shopping/personal business trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below. (If bus service is not available for your Shopping/personal business trip, please rank the three remaining alternatives.)

<u>Ranked</u>		(a) \$1.00 Per Gallon		(b) \$1.50 Per Gallon		(c) \$3.00 Per Gallon		(d) \$4.00 Or More Per Gallon	
1	2	1	2	1	2	1	2	1	2
19.5	23.0	walk () 22.0	25.0	walk () 24.5	29.7	walk () 18.2	32.2	walk ()	
20.3	33.9	bicycle () 25.5	36.7	bicycle () 37.1	35.0	bicycle () 38.1	36.8	bicycle ()	
10.9	29.5	bus () 18.5	17.0	bus () 24.0	15.8	bus () 24.0	16.5	bus ()	
48.9	19.5	car () 32.6	17.8	car () 11.0	16.3	car () 9.0	11.3	car ()	

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU. PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU SHOP OR DO PERSONAL BUSINESS BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 4 MILES OR LESS.

1. If you were to ride your bicycle to your shopping/personal business destination, what is your best estimate of the time you would spend doing the following?

getting the bicycle to the street 2.3 (minutes)

riding the bicycle 13.1 (minutes)

parking and locking up the bicycle 2.6 (minutes)

walking from bicycle to destination 1.7 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 19.8 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to your shopping/personal business destination.

4.8 (%) bicycle path (off the street) } 3.0 both
35.1 () bicycle lane (on the street) }

34.8 () neither

11.8 () don't know

Note: 10.5% of trips were more than 4 miles

3. What portion of your total trip from home to your shopping/personal business destination is served by bicycle paths or bicycle lanes?

30.0 (%) none

18.8 () less than 1/4 the distance

13.8 () 1/4 to 1/2 the distance

4.8 () 1/2 to 3/4 the distance

8.3 () more than 3/4 of the distance

13.8 () don't know

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 2 MILES OR LESS.

4. If you were to walk to shopping/personal business, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at shopping/personal business destination?

20.1 (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to your shopping/personal business destination?

48.2 () all or almost all the way

22.0 () part of the way

2.0 () there are none

2.0 () don't know

25.8 percent of trips were more than 2 miles

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop	<u>5.1</u> (minutes)
waiting for the bus	<u>12.6</u> (minutes)
riding on the bus	<u>13.1</u> (minutes)
walking from bus to destination	<u>4.5</u> (minutes)
TOTAL TIME FROM HOME TO DESTINATION	<u>34.1</u> (minutes)

(Average values)

7. Is it necessary to change buses to travel from your home to your shopping/personal business destination?

17.3 (%) Yes

46.4 (%) No

3.5 Don't know

Bus service not available : 32.8 %

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to your shopping/personal business destination?

8.5 times out of ten

(mean value)

9. What is the one-way bus fare on your trip from home to your shopping/personal business destination?

0.17 cents

(mean)

() don't know

10. If you were to go by car to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

walking to the car	<u>1.8</u> (minutes)
driving or riding	<u>7.6</u> (minutes)
parking the car	<u>2.9</u> (minutes)
walking from car to destination	<u>2.4</u> (minutes)
TOTAL TIME FROM HOME TO DESTINATION	<u>15.1</u> (minutes)

(Mean values)

11. What is the parking cost on your trip from home to your shopping/personal business destination?

(CHECK ONE AND SPECIFY THE COST.)

() no charge

() daily charge 1.11 (dollars)

() weekly charge — (dollars)

() monthly charge — (dollars)

Mean

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

60.0(%) Yes

40.0() No (IF "NO", GO TO NEXT PAGE.)

2. Did you ride a bicycle during the last month?

33.0() Yes

(40% did not ride during the year)

27.0() No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h" below) during the last 30 days.

	<u>Did Not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO ANSWER</u>
a. To work	20.8()	2.8()	1.0()	1.0()	1.3()	4.3()	2.0
b. To school	16.7()	3.1()	2.7()	0.4()	1.2()	3.5()	1.2
c. For personal business	7.5()	10.8()	6.5()	3.3()	1.8()	2.0()	1.3
d. To visit friends	11.8()	13.8()	3.0()	2.0()	0.8()	1.3()	0.5
e. To go shopping	11.5()	11.3()	5.3()	2.3()	0.8()	1.0()	1.0
f. To a recreational activity	10.3()	12.0()	5.0()	2.3()	1.3()	2.0()	0.3
g. Neighborhood riding	8.3()	15.5()	4.5()	1.5()	0.5()	2.3()	0.5
h. Long distance riding (over 2 hours)	24.5()	6.3()	0.5()	0.3()	- ()	0.5()	1.0

(67% did not bicycle during month)

Is your selected shopping or personal business destination located less than 4 miles away from your home?

73.0% () Yes

If your answer is YES, please read below.

22.0 () No

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right-hand side of the road marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for better riding. In addition, high-intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high activity areas, these consist of enclosed storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made freely available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to your shopping or personal business destination assuming the bicycle facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination using the facility improvements described on the previous page.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Answer
1. Bicycling to this shopping/personal bus. destination would be pleasant because I could enjoy the scenery and surroundings.	25()	43.0()	21.8()	9.6()	0.6()	-
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when riding a bicycle	17.3()	53.2()	10.9()	17.3()	1.3()	-
3. I could pick up and go anytime I like when I ride a bicycle on shopping or on personal business trips.	20.5()	60.3()	7.7()	9.6()	1.9()	-
4. Riding a bicycle to this shopping/personal business destination would be tiring.	26()	20.5()	16.0()	51.3()	9.6()	-
5. Riding a bicycle to my shopping/personal business destination would be dangerous because of the heavy traffic.	3.2()	14.7()	8.3()	56.5()	17.3()	-
6. When on my shopping/personal business trip with children, I would find it convenient to ride the bicycle.	1.9()	12.8()	25.6()	41.8()	17.9()	-
7. I could not rely on riding a bicycle in rainy weather.	15.4()	56.4()	11.5()	14.1()	2.6()	-
8. I could easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	2.6()	18.6()	19.9()	48.7()	9.6()	4.6
9. It would be uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	1.3()	45()	9.6()	60.3()	23.7()	0.6
10. I could get to my shopping/personal business destination quickly when I ride a bicycle.	15.4()	59.6()	10.3()	14.7()	- ()	-
11. I would worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	1.3()	5.1()	15.4()	63.5()	14.7()	-
12. I would worry about being injured in an accident when I ride a bicycle to my shopping/personal bus. destination.	1.9()	10.3()	9.0()	62.8()	16.0()	-
13. It would be relaxing to ride by bicycle to my shopping/ personal business destination.	14.7()	50.6()	16.7()	15.4()	1.3()	1.3
14. I would dislike bicycling to this shopping/personal bus. destination because of many delays at intersections.	1.3()	12.8()	16.0()	62.2()	7.7()	-
15. Bicycling to this shopping/personal bus. destination would be unsafe due to lack of bike paths separated from motor traffic.	2.6()	5.1()	10.3()	48.7()	31.4()	1.9
16. Bicycling to this shopping/personal business destination would be dangerous because motorists are inconsiderate of bikers.	5.1()	12.2()	17.9()	50.7()	13.5()	0.6
17. When bicycling to this destination, I would worry about perspiring or soiling my clothes.	1.3()	17.9()	14.7()	57.2()	8.3()	0.6
18. Riding a bicycle would give healthful exercise.	47.4()	48.1()	3.2()	1.3()	- ()	-
19. Parking, locking and unlocking my bicycle would be no trouble.	23.1()	55.1()	9.6()	10.9()	1.3()	-
20. I would worry about my bicycle being stolen at this shopping/personal business destination.	3.2()	14.1()	10.9()	57.1()	14.7()	-
21. It would be inexpensive to buy and operate a bicycle.	28.8()	55.8()	7.7()	7.7()	- ()	-

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Please repeat the process for each statement (a) through (c) below. *(If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)*

- a. Assume the bicycle facilities are in place. Please rank the following means of travel for your next shopping or personal business trip to the same destination.

<u>RANK 1</u>	<u>RANK 2</u>		<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS.</u>
28.8	44.3	() bicycle with improved facilities	18.6	4.5	3.8
17.3	20.5	() walk	37.2	21.8	3.2
3.2	15.4	() bus/transit	16.7	33.9	30.8
44.4	16.0	() car (driver or passenger)	23.7	9.0	1.9

- b. Now assume the same condition as (a) above, except that the price of gasoline has increased to \$1.50 per gallon *(please rank again)*.

41.7	37.2	() bicycle with improved facilities	12.8	4.5	3.8
21.2	28.7	() walk	27.6	19.9	2.6
7.1	14.1	() bus/transit	27.6	21.8	29.4
28.9	16.0	() car (driver or passenger)	28.2	23.7	3.2

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon *(please rank again)*.

53.3	28.8	() bicycle with improved facilities	9.6	4.5	3.8
23.7	40.4	() walk	17.3	16.0	2.6
11.5	14.1	() bus/transit	29.5	14.1	30.8
9.6	12.2	() car (driver or passenger)	39.1	34.6	4.5

2. If only the alternatives listed below were available for your next 10 shopping or personal business trips, how many of the 10 trips would you make using each alternative? *(Write the number of trips in the box next to each alternative.)*

- 2.9 () bicycle with improved facilities
 2.3 () walk
 0.8 () bus/transit
 4.0 () car (driver or passenger)

(10) TOTAL TRIPS

(Mean values)

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion, and costly street and highway expenditures. It has been suggested that in order to reduce these problems, people must live nearer to their places of employment, shopping, school, and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six-block (1/2 mile) distance and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to all shopping and personal business destinations without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available; and there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS, or CAR for your shopping or personal business trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statement:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Ans.
I would like to live in this type of community.	37.5(%)	38.0()	9.5()	5.5()	3.5()	6.0

2. Please indicate your preference for each of the following transportation alternatives on your shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. (Please repeat the process for each statement (a) through (d) below.)

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next shopping or personal business trip, and assume further that your trip is approximately 1/2 mile (6 blocks) in length. (Please rank the following means of transportation.)

	1	2	3	4		1	2	3	4
() walk	43.0	39.0	9.5	5.0	() bus or transit	1.0	9.0	38.5	42.0
() bicycle	38.5	40.0	10.0	6.5	() car (driver or passenger)	16.0	6.5	36.0	37.0

- b. Now suppose that in addition to the conditions described in (a) above the price of gasoline increased to \$1.50 per gallon. (Please rank the following means of transportation.)

() walk	46.0	39.0	5.5	6.0	() bus or transit	3.5	9.0	56.0	22.0
() bicycle	41.0	39.5	9.0	5.5	() car (driver or passenger)	7.5	7.0	23.5	56.5

- c. Assume the conditions described in (a) above and assume that in addition the speed limit was reduced to 15 m.p.h. in the community. (Please rank the following means of transportation.)

() walk	47.0	40.0	5.5	4.5	() bus or transit	3.5	6.0	52.0	27.5
() bicycle	41.0	40.5	8.5	5.0	() car (driver or passenger)	7.0	8.0	27.0	52.0

- d. Assume again conditions described in (a) above but this time assume no parking was available at your shopping or personal business destination. (Please rank the following means of transportation.)

() walk	52.5	38.0	3.0	3.0	() bus or transit	6.5	10.0	65.0	5.5
() bicycle	36.5	44.0	12.0	2.0	() car (driver or passenger)	3.5	2.5	11.5	55.0

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. AS YOU RECALL, YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 28.7 ^{Mean} (age)
2. What is your sex? 50.2 % () Male 49.8 % () Female
3. How many adults (18 or over), including yourself, are there in your household? 2.2 ^{Mean}
4. How many minors (under 18) are there in your household? 1.0 ^{Mean}
5. Do you have a valid driver's license? 91.2 % () Yes 8.5 () No NO ANS = 0.3 %
6. How many licensed drivers (including yourself) are there in your household? 2.0 ^{mean}
7. How many automobiles are there in your household? 1.6 ^{mean}
8. Do you own a bicycle? 49.5 % () Yes 50.5 () No
9. How many bicycles are there in your household? 1.5 ^{mean}
10. What type of structure do you live in?

<u>22.3</u> (%) single family	<u>2.3</u> () low-rise apartment (4 to 8 stories)
<u>11.8</u> () duplex	<u>0.5</u> () high-rise apartment (more than 8 stories)
<u>1.5</u> () townhouse	<u>16.0</u> () other _____
<u>45.1</u> () walk-up apartment (3 stories or less)	<u>0.5</u> ^(please specify) NO ANSWER
11. What is your educational background? (CHECK ONE)

<u>1.0</u> (%) completed elementary school	<u>22.3</u> () college or technical school graduate
<u>1.5</u> () some high school	<u>17.3</u> () some graduate school
<u>6.3</u> () high school graduate	<u>13.3</u> () completed graduate degree(s)
<u>38.0</u> () some college or technical school	<u>0.3</u> NO ANS.
12. Please indicate your work group below:

<u>44.9</u> (%) work 5 or more days a week	<u>5.5</u> () work 1-2 days a week
<u>12.0</u> () work 3-4 days a week	<u>35.8</u> () presently not employed
	<u>1.8</u> NO ANS.

- NO ANS. = 3.8%

29.8() student

2.3 () sales worker

10.5 () secretarial-clerical-cashier

2.0 () other

3.5 () Not employed ^(please specify)

15. Please check the category which includes your approximate family income before taxes.

4.0 () \$15,001 - \$17,500

3.8 () \$17,501 - \$20,000

6.3 () \$20,001 - \$25,000

9.0 () \$25,001 - \$50,000

4.5 () Over \$50,000

5.8 NO ANSWER

$$\text{MEAN} = 14.555$$

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

19

Is your shopping or personal business destination located less than 2 miles from your home?

69.5(%) Yes

30.5 () No

If your answer is YES, please read below.

If your answer is NO, please go to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrianways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass median. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High-intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches, and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to your shopping or personal business destination, assuming the facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to your shopping or personal business destination using the facility improvements described on the previous page, even if you did not walk there on your last trip.

	<u>Strongly Agree</u>	<u>Agree</u>	<u>Neither Agree Nor Disagree</u>	<u>Disagree</u>	<u>Strongly Disagree</u>
1. Walking to a shopping/personal business destination would be pleasant because I could enjoy the scenery and surroundings.	()	()	()	()	()
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when walking.	()	()	()	()	()
3. I could pick up and go anytime I like when I walk to go shopping or on personal business trips.	()	()	()	()	()
4. Walking to this shopping/personal business destination would be tiring.	()	()	()	()	()
5. Walking to my shopping/personal business destination would be dangerous because of the heavy traffic.	()	()	()	()	()
6. When on a shopping/personal business trip with children, it would be inconvenient to walk.	()	()	()	()	()
7. I could not rely on walking to this destination in rainy weather.	()	()	()	()	()
8. I could easily carry packages when I walk while I am on a shopping/personal business trip.	()	()	()	()	()
9. It would be uncomfortable to walk to this destination because of rough or bumpy walking surfaces.	()	()	()	()	()
10. I could get to my shopping/personal business destination quickly when I walk.	()	()	()	()	()
11. I would worry about being mugged or assaulted when I walk to my shopping/personal business destination.	()	()	()	()	()
12. I would worry about being injured in an accident when I walk to my shopping/personal business destination.	()	()	()	()	()
13. It would be relaxing to walk to my shopping/personal business destination.	()	()	()	()	()
14. I would dislike walking to this destination because of the many delays at intersections.	()	()	()	()	()
15. Walking to my destination would be unsafe because of the lack of pathways that are separated from motorized traffic.	()	()	()	()	()
16. Walking to a shopping/personal business destination would be dangerous because motorists are inconsiderate of pedestrians.	()	()	()	()	()
17. When walking to this destination I would worry about perspiring or soiling my clothes.	()	()	()	()	()
18. Walking would give healthful exercise.	()	()	()	()	()

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat the process for each statement (a) through (c) below. *(If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)*

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next shopping or personal business trip.

RANK 1		RANK 2	RANK 3	RANK 4	NO ANSW
33.1	() walk with improved facilities	28.1	28.8	8.6	1.4
18.7	() bicycle	38.1	25.2	13.7	4.3
2.9	() bus/transit	10.1	17.3	36.6	33.1
45.3	() car (driver or passenger)	20.1	24.5	7.9	2.2

- b. Now assume the same condition (a) above except that the price of gasoline has increased to \$1.50 per gallon. *(Please rank again.)*

37.3	() walk with improved facilities	31.7	20.9	7.9	2.2
25.2	() bicycle	40.3	18.0	11.5	5.0
8.6	() bus/transit	8.6	25.2	23.7	33.9
27.3	() car (driver or passenger)	15.1	31.0	23.0	3.6

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. *(Please rank.)*

43.8	() walk with improved facilities	39.6	9.4	5.0	2.2
36.0	() bicycle	37.4	14.4	10.0	5.0
9.4	() bus/transit	6.5	35.9	14.4	33.8
8.6	() car (driver or passenger)	12.2	35.3	39.6	4.3

2. If only the alternatives listed below are available for your next ten shopping or personal business trips, how many of the ten trips would you make using each alternative? *(Write the number of trips in the box next to each alternative.)*

- 2.9 () walk with improved facilities
 1.6 () bicycle
 0.8 () bus/transit
 4.8 () car (driver or passenger)

(10) TOTAL TRIPS

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to a \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

Please turn to the following page.

YOU HAVE JUST READ AN ASSUMED REGULATION FOR CAR USAGE. IMAGINE THAT THIS SITUATION FOR CAR USAGE EXISTS FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
a. I believe that a congestion fee of two dollars per day is desirable.	10.5	12.5	11.0	24.0	40.0	2.0
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	1.0	4.0	11.0	39.0	42.5	2.5

2. Please indicate your preference for each of the following transportation alternatives for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" under your least preferred alternative. Please repeat this for each of the statements (a) through (c) below. (If bus service is not available for this shopping or personal business trip, please rank the remaining three alternatives only.)

- a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect.

Please rank the following means of transportation for your next shopping or personal business trip.

RANK 1		RANK 2	RANK 3	RANK 4	NO ANS
23.5	() walk	32.5	21.0	20.0	3.0
28.5	() bicycle	28.5	25.0	13.5	4.5
14.0	() bus or transit	19.0	27.0	12.5	27.5
32.0	() car (driver or passenger)	16.5	22.0	26.0	3.5

- b. Assume that instead of \$2.00 the congestion fee increased to \$4.00 per day. (Please rank again.)

27.5	() walk	34.0	18.5	17.5	2.5
34.0	() bicycle	29.5	21.0	10.5	5.0
22.0	() bus or transit	15.0	28.0	8.0	27.0
14.7	() car (driver or passenger)	17.5	27.5	36.0	4.5

- c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

27.0	() walk	38.5	18.0	14.0	2.5
37.0	() bicycle	30.0	18.0	10.5	4.5
21.0	() bus or transit	17.0	29.0	7.0	26.0
13.0	() car (driver or passenger)	11.0	30.5	41.0	4.5



City of Austin

Founded by Congress, Republic of Texas, 1839

Municipal Building, Eighth at Colorado, P.O. Box 1088, Austin, Texas 78767 Telephone 512/477-6511

October 15, 1978

Dear Resident of Austin:

The City of Austin is cooperating in a U.S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your school trips only. We are interested in your opinion of the transportation services available to you between your home and your school. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800-328-2933.

Sincerely,

Carole Keeton McClellan
Mayor

CKM:cd
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME TO SCHOOL.

1. What is the nearest intersection or street address of the place where you go to school?

(nearest intersection or street address)

(city)

2. Approximately how far is it from your home to your school (one way)?

8.5 (%) 2 blocks or less (1/4 mile or less)	13.8 () 2 to 4 miles
28.8 () 3 to 6 blocks (1/4 to 1/2 mile)	10.5 () 4 to 6 miles
24.8 () 1/2 to 1 mile	1.3 () 6 to 10 miles
10.5 () 1 to 2 miles	0.3 () over 10 miles
	1.5 NO ANSWER

3. What was the date of your most recent trip to school?

month/day

4. At approximately what time of day did you make this trip to school?

0.8 (%) before 7 a.m.	23.0 () 10 a.m. to 2 p.m.
19.8 () 7 a.m. to 8 a.m.	7.0 () 2 p.m. to 6 p.m.
28.9 () 8 a.m. to 9 a.m.	3.0 () after 6 p.m.
17.5 () 9 a.m. to 10 a.m.	

5. How did you make your most recent trip to school? (CHECK ONE)

36.4 (%) walked all the way	1.5 () motorcycle
14.8 () drove a car	15.0 () bicycle
8.5 () passenger in a car	- () moped (motorized bicycle)

28.3 () bus

- () train, subway

- () taxi

0.5 () other _____
(please specify)

0.3 NO ANSWER

- 5a. If you used bus or transit, how did you get to your bus or transit stop?

- () bicycle

- () taxi

27.8 () walked

0.5 () drove and parked

- () passenger in a car

- () other _____
(please specify)

6. How many stops for errands did you make on your trip to and from school? (CHECK ONE)

66.8 () none

16.3 () one

9.8 () two

6.3 () three or more

0.8 NO ANSWER

7. Did anyone accompany you on this school trip? (CHECK ONE)

73.4 () I traveled alone

1.5 () I was with two other persons

17.0 () I was with one other person

7.3 () I was with three or more persons

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR MOST RECENT TRIP TO SCHOOL WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent school trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For your travel to school we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never used it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to school by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending on how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under "agree", indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your trip to school varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful rating of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF BICYCLE

Is your school located less than 6 miles from your home?

97.0 () Yes

3.0 () No

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to school even if you don't own a bicycle, or didn't ride a bicycle on your last trip to school.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Bicycling to school is pleasant because I can enjoy the scenery and surroundings.	19.6 ()	49.2 ()	19.2 ()	10.8 ()	1.3 ()	
2. When biking, it is convenient to stop and do errands on my way to and from school.	9.5 ()	42.8 ()	17.5 ()	27.1 ()	2.8 ()	0.3
3. I can pick up and go anytime I like when I go to school by bicycle.	20.4 ()	64.1 ()	7.7 ()	9.3 ()	1.0 ()	
4. Traveling to school by bicycle is tiring.	2.8 ()	29.6 ()	20.1 ()	35.4 ()	12.1 ()	
5. Riding a bicycle to school is dangerous because of the heavy traffic.	23.2 ()	45.0 ()	12.6 ()	15.5 ()	3.4 ()	0.3
6. When I ride the bicycle to school, I worry about being late.	1.0 ()	11.9 ()	21.9 ()	50.8 ()	14.4 ()	
7. I cannot rely on riding a bicycle to school in rainy weather.	23.5 ()	56.4 ()	7.5 ()	10.8 ()	1.5 ()	0.3
8. I can easily carry my briefcase or other packages when I ride the bicycle to school.	4.4 ()	29.6 ()	9.0 ()	43.3 ()	13.4 ()	0.3
9. It is uncomfortable to travel to school by bicycle because of rough and bumpy riding surfaces.	3.4 ()	22.7 ()	31.2 ()	37.5 ()	5.2 ()	
10. I can get to school quickly when I go by bicycle.	20.1 ()	48.9 ()	15.5 ()	13.4 ()	2.1 ()	
11. I worry about being mugged or assaulted when I travel to school by bicycle.	0.8 ()	9.3 ()	18.8 ()	45.3 ()	25.8 ()	
12. I worry about being injured in an accident if I ride the bicycle to school.	12.9 ()	38.8 ()	16.5 ()	24.5 ()	7.0 ()	
13. It is relaxing to travel to school by bicycle.	9.3 ()	41.2 ()	26.5 ()	18.6 ()	4.1 ()	0.3
14. I dislike traveling to school by bicycle because of the many stops and delays at each intersection.	2.1 ()	20.1 ()	32.0 ()	38.6 ()	7.2 ()	
15. Riding the bicycle to school is unsafe because of the lack of bike paths that are separated from motorized traffic.	24.2 ()	34.5 ()	15.7 ()	21.4 ()	3.9 ()	0.3
16. Going by bicycle to school is dangerous because motorists are inconsiderate of bicyclists.	25.0 ()	41.5 ()	18.8 ()	12.9 ()	1.3 ()	0.5
17. When bicycling to school, I worry about perspiring or soiling my clothes.	6.2 ()	37.1 ()	22.2 ()	29.6 ()	4.9 ()	
18. Riding a bicycle to school gives healthful exercise.	47.6 ()	47.2 ()	3.9 ()	1.0 ()	— ()	0.3
19. Parking, locking and unlocking my bicycle at school is no trouble.	16.0 ()	46.8 ()	15.5 ()	18.0 ()	3.4 ()	0.3
20. After parking my bicycle, I must walk a long distance when I go to school.	1.8 ()	2.6 ()	10.6 ()	56.9 ()	29.1 ()	
21. I worry about my bicycle being stolen at school.	11.1 ()	41.6 ()	17.8 ()	25.8 ()	3.4 ()	0.3
22. It is inexpensive to buy and operate a bicycle.	22.2 ()	46.7 ()	15.2 ()	14.9 ()	1.0 ()	

YOUR RATING OF BUS (or transit)

Is bus service available between your home and school?

89.0%) Yes

12.0% No ()

If your answer is YES, please rate the statements below concerning how you would feel about going to school by bus, even if you didn't choose bus on your last school trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Going to school by bus is pleasant because I can enjoy the scenery and surroundings.	4.5 ()	31.8 ()	32.7 ()	23.9 ()	6.8 ()	0.3
2. When traveling by bus, it is inconvenient to stop and do errands on my way to and from school.	26.1 ()	49.4 ()	8.0 ()	11.9 ()	4.3 ()	0.3
3. I must schedule my trips in advance when I travel by bus to school.	17.0 ()	48.6 ()	12.8 ()	18.2 ()	3.1 ()	0.3
4. Traveling by bus to school is very tiring.	2.3 ()	15.9 ()	27.3 ()	42.8 ()	11.1 ()	0.6
5. Traveling by bus to school is dangerous because of the heavy traffic.	0.3 ()	2.0 ()	14.5 ()	59.3 ()	23.0 ()	0.9
6. When I take the bus to school, I worry about being late.	19.3 ()	49.7 ()	15.9 ()	12.8 ()	2.0 ()	0.3
7. I cannot rely on taking a bus to school in rainy weather.	5.4 ()	19.6 ()	17.6 ()	44.9 ()	12.2 ()	0.3
8. I can easily carry my briefcase or other packages when I go to school by bus.	13.1 ()	61.6 ()	11.6 ()	11.4 ()	2.0 ()	0.3
9. It is uncomfortable to travel to school by bus because of rough and bumpy road surfaces.	5.1 ()	18.8 ()	21.0 ()	48.8 ()	5.7 ()	0.6
10. I can get to school quickly, when I take the bus.	2.8 ()	21.0 ()	26.4 ()	38.4 ()	10.8 ()	0.6
11. I worry about being mugged or assaulted when I go to school by bus.	0.3 ()	2.8 ()	11.4 ()	53.6 ()	31.3 ()	0.6
12. I worry about being injured in an accident if I go to school by bus.	0.9 ()	5.7 ()	11.1 ()	57.6 ()	24.1 ()	0.6
13. It is relaxing to go to school by bus.	4.3 ()	26.1 ()	33.7 ()	27.6 ()	8.0 ()	0.3
14. I dislike traveling to school by bus because of the many stops and delays at intersections.	8.5 ()	27.3 ()	32.6 ()	29.0 ()	2.3 ()	0.3
15. I must walk a long distance to get to and from the bus when I go to school.	3.4 ()	19.3 ()	11.6 ()	51.5 ()	13.9 ()	0.3
16. There is generally a long wait involved when I go to school by bus.	15.9 ()	40.2 ()	20.5 ()	20.5 ()	2.3 ()	0.6
17. When traveling by bus to school, I worry about perspiring or soiling my clothes.	1.4 ()	7.1 ()	17.3 ()	56.0 ()	15.9 ()	0.3
18. It is inexpensive to travel by bus to school.	45.5 ()	41.5 ()	6.8 ()	4.8 ()	1.1 ()	0.3

YOUR RATING OF WALK

Is your school located less than 3 miles from your home?

76.7 () Yes

23.3 No ()

If your answer is YES, please rate the statements below concerning how you would feel about walking to school, even if you did not walk on your last school trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Walking to school is pleasant because I can enjoy the scenery and surroundings.	32.2 ()	47.6 ()	13.0 ()	6.2 ()	1.0 ()	
2. When walking, it is convenient to stop and do errands on my way to and from school.	16.9 ()	41.4 ()	14.7 ()	22.8 ()	4.2 ()	
3. I can pick up and go anytime I like when I walk to school.	24.4 ()	53.4 ()	7.2 ()	12.4 ()	2.6 ()	
4. Walking to school is tiring.	4.9 ()	21.8 ()	18.6 ()	41.3 ()	13.4 ()	
5. Walking to school is dangerous because of the heavy traffic.	4.2 ()	14.7 ()	15.3 ()	50.2 ()	15.6 ()	
6. When I walk to school, I worry about being late.	7.8 ()	28.7 ()	15.0 ()	38.1 ()	10.1 ()	
7. I cannot rely on walking to school in rainy weather.	16.0 ()	32.9 ()	8.8 ()	35.1 ()	7.2 ()	
8. I can easily carry my briefcase or other packages when I walk to school.	8.1 ()	55.1 ()	12.4 ()	20.8 ()	3.6 ()	
9. It is uncomfortable to walk to school because of rough or bumpy walking surfaces.	2.0 ()	9.1 ()	14.0 ()	58.6 ()	16.3 ()	
10. I can get to school quickly when I walk.	6.8 ()	39.5 ()	18.9 ()	26.7 ()	7.8 ()	0.3
11. I worry about being mugged or assaulted when I walk to school.	4.6 ()	13.7 ()	14.0 ()	41.7 ()	25.7 ()	0.3
12. I worry about being injured in an accident if I walk to school.	2.9 ()	9.8 ()	13.4 ()	47.2 ()	26.7 ()	
13. It is relaxing to walk to school.	21.2 ()	41.0 ()	19.9 ()	15.6 ()	2.0 ()	0.3
14. I dislike walking to school because of the many delays at intersections.	1.0 ()	7.2 ()	17.3 ()	62.8 ()	11.7 ()	
15. Walking to school is unsafe because of the lack of pathways that are separated from motorized traffic.	7.5 ()	15.6 ()	12.1 ()	48.5 ()	16.0 ()	0.3
16. Walking to school is dangerous because motorists are inconsiderate of pedestrians.	10.1 ()	26.4 ()	24.1 ()	31.6 ()	7.5 ()	0.3
17. When walking to school, I worry about perspiring or soiling my clothes.	3.6 ()	24.8 ()	22.1 ()	39.4 ()	10.1 ()	
18. Walking to school gives healthful exercise.	42.3 ()	50.3 ()	5.5 ()	1.6 ()	0.3 ()	

NO ANSWER

YOUR RATING OF CAR

When using a car, are you usually a:

73.0 () car driver?

27.0 () car passenger?

If you are usually a car driver, even if you did not choose auto for your last school trip, rate the statements below concerning how you would feel about driving to school.

If you are usually a car passenger, even if you did not choose auto for your last school trip, rate the statements below concerning how you would feel about going to school as a car passenger.

Please answer all questions below, even if you do not own a car.

NO
ANSWER

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Traveling by car to school is pleasant because I can enjoy the scenery and surroundings.	3.0 ()	23.3 ()	34.1 ()	30.5 ()	8.3 ()	0.8
2. When traveling by car, it is convenient to stop and do errands on my way to and from school.	19.5 ()	45.1 ()	9.5 ()	19.8 ()	5.3 ()	0.8
3. I can pick up and go anytime I like when I travel by car to school.	17.8 ()	37.8 ()	14.3 ()	22.3 ()	6.5 ()	1.3
4. Traveling by car to school is tiring.	2.8 ()	16.3 ()	19.8 ()	39.8 ()	20.0 ()	1.3
5. Traveling by car to school is dangerous because of the heavy traffic.	4.0 ()	26.8 ()	22.5 ()	38.4 ()	6.5 ()	1.8
6. When I go by car to school, I worry about being late.	7.3 ()	28.5 ()	17.8 ()	34.8 ()	8.8 ()	0.8
7. I cannot rely on traveling by car to school in rainy weather.	1.5 ()	13.0 ()	15.5 ()	47.4 ()	21.8 ()	0.8
8. I can easily carry my briefcase or other packages when I travel by car to school.	35.3 ()	54.8 ()	6.3 ()	2.5 ()	0.3 ()	0.8
9. It is uncomfortable to travel by car to school because of rough or bumpy road surfaces.	0.8 ()	5.8 ()	19.8 ()	53.8 ()	19.0 ()	0.8
10. I can get to school quickly when I travel by car.	18.5 ()	37.6 ()	13.0 ()	21.8 ()	8.0 ()	1.0
11. I worry about being mugged or assaulted when I travel by car to school.	0.3 ()	1.8 ()	7.5 ()	47.6 ()	41.5 ()	1.3
12. I worry about being injured in an accident if I travel by car to school.	2.8 ()	11.3 ()	21.3 ()	46.6 ()	17.0 ()	1.0
13. It is relaxing to travel to school by car.	4.8 ()	24.8 ()	31.3 ()	28.5 ()	9.8 ()	0.8
14. I dislike traveling by car to school because of the many delays at intersections.	7.0 ()	30.3 ()	25.8 ()	32.1 ()	3.8 ()	1.0
15. Parking the car at my school is expensive.	27.8 ()	29.0 ()	16.3 ()	20.8 ()	4.8 ()	1.3
16. After parking the car, I must walk a long distance when I go to school.	28.8 ()	38.9 ()	14.0 ()	14.5 ()	2.5 ()	1.3
17. I worry about the car being stolen or vandalized at school.	5.0 ()	18.0 ()	26.0 ()	39.2 ()	10.5 ()	1.3
18. It is inexpensive to buy and operate a car.	5.3 ()	7.5 ()	7.5 ()	33.5 ()	45.2 ()	1.0
19. Parking the car at school is no trouble.	2.8 ()	4.5 ()	6.3 ()	21.8 ()	63.3 ()	1.3

WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL TO SCHOOL.

1. Imagine that only BUS, WALK, BICYCLE, and CAR (driver or passenger) were available for your most recent school trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative.

(If bus service was not available for your school trip, please rank the three remaining alternatives.)

Ranked #1		#2	#3	#4	NO ANSWER
18.5	() bus	22.8	23.4	16.5	18.8
28.9	() walk	23.0	19.0	25.8	3.3
24.8	() bicycle	27.3	32.6	10.3	3.0
26.3	() car (driver or passenger)	21.8	21.3	27.3	2.3

2. We would like to know how often you use each of the following means of travel for school trips from home. Place an "X" under your best estimate of the number of days you have used each means of travel during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
bus	43.1 () 18.8 () 7.0 () 4.0 () 8.5 () 17.3 ()						1.3
walk	34.7 () 14.8 () 6.3 () 3.8 () 8.3 () 29.3 ()						2.9
drive a car	47.8 () 24.0 () 8.8 () 2.8 () 9.8 () 9.5 ()						3.3
passenger in a car	52.9 () 30.5 () 5.3 () 2.0 () 1.0 () 2.3 ()						6.0
bicycle	65.9 () 10.0 () 3.5 () 1.8 () 3.5 () 11.5 ()						3.8
other _____ (specify, _____)	- () 1.0 () 0.3 () 0.5 () 4.3 () 2.0 ()						95.9

3. Assume that on your next school trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" after your third choice, and a "4" after your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below.

(If bus service is not available for your school trip, please rank the remaining three alternatives.)

Ranked #1, #2	(a) \$1.00 Per Gallon	Ranked #1, #2	(b) \$1.50 Per Gallon	Ranked #1, #2	(c) \$3.00 Per Gallon	Ranked #1, #2	(d) \$4.00 Or More Per Gallon
32.3; 22.3	walk ()	33.4; 23.8	walk ()	36.1; 26.3	walk ()	37.2; 26.8	walk ()
25.0; 33.9	bicycle ()	27.5; 39.7	bicycle ()	31.5; 43.2	bicycle ()	32.8; 45.1	bicycle ()
26.5; 20.5	bus ()	28.5; 16.0	bus ()	27.8; 17.5	bus ()	26.3; 17.5	bus ()
15.0; 19.0	car ()	9.8; 14.3	car ()	3.8; 8.8	car ()	3.0; 6.3	car ()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU.
PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO SCHOOL BY ANSWERING THE FOLLOW-
ING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO SCHOOL IS 6 MILES OR LESS.

1. If you were to ride your bicycle to school, what is your best estimate of the time you would spend going each of the following?

getting the bicycle to the street 1.73 (minutes)

riding the bicycle 12.06 (minutes)

parking and locking up the bicycle 2.53 (minutes)

walking from bicycle to school 2.33 (minutes)

TOTAL TIME FROM HOME TO SCHOOL 18.53 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to school?

3.3 () bicycle path (off the street)
61.9 () bicycle lane (on the street) } 3.3% Both
19.5 () neither
10.0 () don't know

3. What portion of your total trip from home to school is served by bicycle paths or bicycle lanes?

16.5 () none
26.7 () less than 1/4 the distance
19.5 () 1/4 to 1/2 the distance
10.0 () 1/2 to 3/4 the distance
12.8 () more than 3/4 of the distance
12.5 () don't know

ANSWER IF DISTANCE FROM HOME TO SCHOOL IS 3 MILES OR LESS.

4. If you were to walk to school, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at school? 20.54 (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to school?

56.6 () all or almost all the way

22.3 () part of the way

0.8 () there are none

0.5 () don't know

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to school, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop 33 (minutes) *average time*
 waiting for the bus 9.0 (minutes)
 riding on the bus 10.6 (minutes)
 walking from bus to school 4.4 (minutes)
 TOTAL TIME FROM HOME TO SCHOOL 27.2 (minutes)

7. Is it necessary to change buses to travel from your home to school?

6.3 () Yes
82.9 () No
0.8 DON'T KNOW

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to school?

7.08 times out of ten
 1

9. What is the one-way bus fare on your trip from home to school?

.02 cents () don't know

10. If you were to go by car to school, what is your best estimate of the time you would spend doing each of the following?

walking to the car 1.4 (minutes)
 driving or riding 7.0 (minutes)
 parking the car 7.4 (minutes)
 walking from car to school 6.4 (minutes)
 TOTAL TIME FROM HOME TO SCHOOL 22.3 (minutes)

11. What is the parking cost on your trip from home to school? (CHECK ONE AND SPECIFY THE COST.)

43.3 () no charge
10.3 () daily charge .67 (dollars)
1.0 () weekly charge _____ (dollars)
24.8 () monthly charge _____ (dollars)
2.5 Semester
1.3 yearly

NO ANSWER: 17.09

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

65.596 () Yes

34.090 () No (IF "NO", GO TO NEXT PAGE.)

2. Did you ride a bicycle during the last 30 days?

38.3 () Yes

27.3 () No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h" below) during the last 30 days.

	<u>Did Not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO ANSWER</u>
a. To work	25.8 ()	1.5 ()	1.0 ()	0.8 ()	1.3 ()	5.5 ()	2.5
b. To school	9.0 ()	8.8 ()	3.0 ()	2.5 ()	3.0 ()	12.0 ()	—
c. For personal business	9.8 ()	13.5 ()	6.0 ()	2.0 ()	1.5 ()	5.0 ()	0.5
d. To visit friends	15.5 ()	12.0 ()	3.5 ()	1.3 ()	2.0 ()	3.8 ()	0.3
e. To go shopping	19.0 ()	11.3 ()	3.0 ()	1.5 ()	0.8 ()	2.3 ()	0.5
f. To a recreational activity	11.5 ()	14.0 ()	5.3 ()	2.8 ()	1.3 ()	3.0 ()	0.5
g. Neighborhood riding	11.3 ()	16.5 ()	3.8 ()	3.0 ()	0.8 ()	3.0 ()	—
h. Long distance riding (over 2 hours)	30.3 ()	6.3 ()	0.8 ()	— ()	0.5 ()	— ()	0.5

Is your school located less than 6 miles away from your home?

48.7% () Yes

1.3% No ()

If your answer is YES, please read below.

If your answer is NO, please go to page 14.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO SCHOOL USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right-hand side of the road, marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for better ride. In addition, high-intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, throughout the school area, these consist of enclosed free storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to school, assuming the bicycle facility improvements, described above, are available to you on your next trip to school. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to school using the facility improvements described on the previous page.

		Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree
1.	Bicycling to school would be pleasant because I could enjoy the scenery and surroundings.	29.2 ()	51.8 ()	15.4 ()	2.6 ()	1.0 ()
2.	When biking, it would be convenient to stop and do errands on my way to and from school.	12.3 ()	49.3 ()	20.0 ()	17.4 ()	1.0 ()
3.	I could pick up and go anytime I like when I go to school by bicycle.	25.1 ()	60.5 ()	6.7 ()	7.7 ()	- ()
4.	Traveling to school by bicycle would be tiring.	3.6 ()	24.1 ()	25.1 ()	36.4 ()	10.2 ()
5.	Riding a bicycle to school would be dangerous because of the heavy traffic.	3.1 ()	10.3 ()	11.8 ()	59.4 ()	14.9 ()
6.	If I rode the bicycle to school, I would worry about being late.	2.6 ()	8.7 ()	18.5 ()	56.4 ()	13.3 () 0.5
7.	I could not rely on riding a bicycle to school in rainy weather.	16.4 ()	56.4 ()	10.8 ()	15.9 ()	4.5 ()
8.	I could easily carry my briefcase or other packages when I ride the bicycle to school.	5.1 ()	28.7 ()	10.8 ()	47.7 ()	7.7 () -
9.	It would be uncomfortable to travel to school by bicycle because of rough and bumpy surfaces.	1.0 ()	4.6 ()	10.3 ()	67.7 ()	15.4 () -
10.	I could get to school quickly when I go by bicycle.	21.0 ()	54.4 ()	13.3 ()	9.2 ()	2.1 () -
11.	I would worry about being mugged or assaulted when I travel to school by bicycle.	- ()	5.1 ()	11.3 ()	60.5 ()	23.1 () -
12.	I would worry about being injured in an accident if I ride the bicycle to school.	1.0 ()	9.2 ()	12.3 ()	64.7 ()	12.3 () 0.5
13.	It would be relaxing to travel to school by bicycle.	13.8 ()	53.9 ()	15.4 ()	15.4 ()	1.0 () 0.5
14.	I would dislike traveling to school by bicycle because of the many stops and delays at intersections.	1.0 ()	14.9 ()	25.1 ()	50.8 ()	8.2 () -
15.	Riding the bicycle to school would be unsafe because of the lack of bike paths that are separated from motorized traffic.	- ()	6.2 ()	5.1 ()	63.6 ()	24.6 () 0.5
16.	Going by bicycle to school would be dangerous because motorists are inconsiderate of bicyclists.	5.1 ()	15.4 ()	20.0 ()	50.8 ()	8.7 () -
17.	When bicycling to school, I would worry about perspiring or soiling my clothes.	2.6 ()	28.2 ()	19.0 ()	42.5 ()	7.7 () -
18.	Riding a bicycle to school would give healthful exercise.	49.7 ()	46.7 ()	2.6 ()	1.0 ()	- () -
19.	Parking, locking and unlocking my bicycle at school would be no trouble.	21.0 ()	60.0 ()	8.2 ()	8.7 ()	2.1 () -
20.	After parking my bicycle, I would have to walk a long distance when I go to school.	1.5 ()	3.1 ()	11.8 ()	62.6 ()	20.5 () 0.5
21.	I would worry about my bicycle being stolen at school.	1.5 ()	21.5 ()	13.3 ()	51.9 ()	11.8 () -
22.	It would be inexpensive to buy and operate a bicycle.	22.1 ()	47.1 ()	11.8 ()	16.4 ()	2.1 () 0.5

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT SCHOOL TRIP.

1. Please indicate your preference for the following alternative means of travel for your next trip to school by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Please repeat the process for each statement, (a) through (c) below. (If bus service is not available between your home and your school, rank the three remaining alternatives only.)

- a. Assume the bicycle facilities are in place. Please rank the following means of travel for your next trip to school.

Ranked #1		#2	#3	#4	NO ANSWER
33.376	() bicycle with improved facilities	36.4	18.5	8.7	3.1
27.7	() walk	27.2	13.8	27.7	3.6
17.4	() bus/transit	18.5	34.9	16.9	12.3
20.5	() car (driver or passenger)	14.4	29.2	32.3	36

- b. Now assume the same condition as (a) above, except that the price of gasoline has increased to \$1.50 per gallon. (Please rank again.)

39.0	() bicycle with improved facilities	39.5	13.3	5.1	3.1
31.2	() walk	27.2	14.9	22.6	4.1
21.5	() bus/transit	17.4	36.5	11.8	12.8
6.7	() car (driver or passenger)	11.8	31.3	45.6	4.6

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

42.6	() bicycle with improved facilities	43.0	7.2	4.1	3.1
32.8	() walk	30.3	16.9	15.9	4.1
20.0	() bus/transit	18.5	42.0	6.7	12.8
3.1	() car (driver or passenger)	4.1	29.7	58.5	4.6

2. If only the alternatives listed below were available for your next 10 trips to school, how many of the 10 trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

- 3.5 () bicycle with improved facilities
 2.9 () walk
 1.9 () bus/transit
 1.7 () car (driver or passenger)
 (10) TOTAL TRIPS

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion, and costly street and highway expenditures. It has been suggested that in order to reduce these problems, people must live nearer to their places of employment, shopping, school, and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six-block (1/2 mile) distance and most work and school trips are within two miles.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to school without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available and there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about WALK, BICYCLE, BUS, or CAR for your school trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND-USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT SCHOOL TRIP.

1. Please indicate your agreement or disagreement with the following statement:

I would like to live in this type of community. 38.5 () 45.0 () 9.5 () 5.0 () 1.5 () 0.5 ()

Strongly Agree Agree Neither Agree Nor Disagree Disagree Strongly Disagree

NO ANSWER

2. Please indicate your preference for each of the following transportation alternatives on your next trip to school, by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative, assuming the land-use arrangement described above. Please repeat the process for each statement (a) through (d) below.

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next trip to school, and assume further that your trip to school is approximately one mile away. (Please rank the following means of transportation.)

Ranked #1		#2	#3	#4	ANSWER
28.0	() walk	39.5	16.0	15.0	1.5
52.5	() bicycle	26.0	13.0	6.5	2.0
10.0	() bus or transit	23.5	44.5	17.0	5.0
9.0	() car (driver or passenger)	8.5	24.0	55.5	3.0

- b. Now suppose that in addition to the conditions described in (a) above that the price of gasoline increased to \$1.50 per gallon. (Please rank again.)

28.5	() walk	44.5	15.0	10.5	1.5
54.0	() bicycle	27.5	12.0	4.5	2.0
13.0	() bus or transit	20.0	50.0	11.5	5.5
3.5	() car (driver or passenger)	5.5	20.5	67.5	3.0

- c. Assume the conditions described in (a) above and assume that in addition the speed limit is reduced to 15 mph in the community. (Please rank.)

30.0	() walk	47.5	13.0	7.5	2.0
58.5	() bicycle	28.5	6.5	4.0	2.5
7.0	() bus or transit	16.0	59.5	12.5	6.0
3.0	() car (driver or passenger)	5.0	19.0	69.5	3.5

- d. Assume again the conditions described in (a) above, but this time assume no parking was available at your school. (Please rank.)

32.5	() walk	44.5	18.5	3.0	1.5
54.0	() bicycle	31.5	10.0	2.5	2.0
11.5	() bus or transit	19.5	60.0	3.5	5.5
1.0	() car (driver or passenger)	2.0	8.5	25.0	3.5

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE POPULATION OF YOUR COMMUNITY. AS YOU RECALL, YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 24.0 yrs (age)
2. What is your sex? 50.7 () Male 49.3 () Female
3. How many adults (18 or over), including yourself, are there in your household? 2.10
4. How many minors (under 18) are there in your household? .41
5. Do you have a valid driver's license? 97.7 () Yes 2.3 () No
6. How many licensed drivers (including yourself) are there in your household? 2.09
7. How many automobiles are there in your household? 1.71
8. Do you own a bicycle? 56 () Yes 44 () No
9. How many bicycles are there in your household? 1.25
10. What type of structure do you live in?

<u>16.0</u> () single family	<u>4.2</u> () low-rise apartment (4 to 8 stories)
<u>12.2</u> () duplex	<u>0.5</u> () high-rise apartment (more than 8 stories)
<u>1.3</u> () townhouse	<u>16.8</u> () other _____
<u>47.6</u> () walk-up apartment (3 stories or less)	<u>1.0%</u> No Answer (please specify)
11. What is your educational background? (CHECK ONE)

<u>—</u> () completed elementary school	<u>9.3</u> () college or technical school graduate
<u>0.3</u> () some high school	<u>25.0</u> () some graduate school
<u>4.5</u> () high school graduate	<u>11.8</u> () completed graduate degree(s)
<u>48.6</u> () some college or technical school	
12. How many workers are in your household? 1.37
13. Please check the category which includes your approximate family income before taxes.

<u>35.0</u> () \$5,000 and under	<u>4.8</u> () \$12,501 - \$15,000	<u>4.0</u> () \$20,001 - \$25,000
<u>14.5</u> () \$5,001 - \$7,500	<u>2.5</u> () \$15,001 - \$17,500	<u>8.0</u> () \$25,001 - \$50,000
<u>8.3</u> () \$7,501 - \$10,000	<u>2.3</u> () \$17,501 - \$20,000	<u>6.8</u> () Over \$50,000
<u>5.3</u> () \$10,001 - \$12,500		<u>8.5%</u> No Answer

In the space below we would welcome any other comments you would like to make. Enclose additional pages if you like.

We would like to express our sincere thanks to you for completing this questionnaire.

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to school using the facility improvements described on the previous page, even if you did not walk on your last trip to school.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Walking to school would be pleasant because I could enjoy the scenery and surroundings.	40.3 ()	42.1 ()	9.1 ()	1.9 ()	0.6 ()	
2. When walking, it would be convenient to stop and do errands on my way to and from school.	10.4 ()	43.5 ()	22.1 ()	23.4 ()	0.6 ()	
3. I could pick up and go anytime I like when I walk to school.	20.2 ()	55.3 ()	2.4 ()	14.3 ()	0.6 ()	0.6
4. Walking to school would be tiring.	1.3 ()	18.2 ()	21.4 ()	44.9 ()	13.6 ()	0.6
5. Walking to school would be dangerous because of the heavy traffic.	1.3 ()	6.5 ()	11.0 ()	55.9 ()	25.3 ()	
6. If I walked to school, I would not worry about being late.	3.9 ()	41.0 ()	21.4 ()	28.6 ()	4.5 ()	0.6
7. I could not rely on walking to school in rainy weather.	9.1 ()	39.6 ()	15.6 ()	31.8 ()	3.9 ()	
8. I could easily carry my briefcase or other packages when I walk to school.	5.8 ()	62.5 ()	12.3 ()	18.8 ()	0.6 ()	
9. It would be uncomfortable to walk to school because of rough or bumpy walking surfaces.	1.3 ()	4.5 ()	6.5 ()	22.4 ()	25.3 ()	
10. I could get to school quickly when I walk.	5.4 ()	49.4 ()	19.5 ()	19.5 ()	3.2 ()	
11. I would worry about being mugged or assaulted when I walk to school.	1.9 ()	11.0 ()	14.3 ()	49.5 ()	22.7 ()	0.6
12. I would worry about being injured in an accident if I walk to school.	0.6 ()	4.5 ()	14.3 ()	54.6 ()	26.0 ()	-
13. It would be relaxing to walk to school.	26.6 ()	50.7 ()	16.2 ()	5.2 ()	1.3 ()	
14. I would dislike walking to school because of the many delays at intersections.	0.6 ()	2.6 ()	12.3 ()	64.4 ()	20.1 ()	
15. Walking to school would be unsafe because of the lack of pathways that are separated from motorized traffic.	1.3 ()	3.5 ()	4.5 ()	52.0 ()	38.7 ()	
16. Walking to school would be dangerous because motorists are inconsiderate of pedestrians.	1.9 ()	11.7 ()	14.9 ()	53.3 ()	17.2 ()	
17. When walking to school, I would worry about perspiring or soiling my clothes.	2.6 ()	22.7 ()	23.6 ()	39.1 ()	11.0 ()	
18. Walking to school would give healthful exercise.	37.0 ()	55.9 ()	6.5 ()	- ()	0.6 ()	

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT SCHOOL TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next trip to school by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and school, rank the three remaining alternatives only.)

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next trip to school.

Ranked #1		#2	#3	#4	No Answer
48.1	() walk with improved facilities	27.9	11.7	9.1	3.2
25.3	() bicycle	39.0	22.1	9.7	3.9
13.0	() bus/transit	19.5	32.5	24.0	11.0
13.0	() car (driver or passenger)	9.7	29.9	44.2	3.2

- b. Now assume the same condition as (a) above, except that the price of gasoline has increased to \$1.50 per gallon. (Please rank again.)

53.3	() walk with improved facilities	27.9	11.0	5.2	2.6
28.6	() bicycle	44.2	17.5	6.5	3.2
11.7	() bus/transit	15.6	44.8	16.2	11.7
5.8	() car (driver or passenger)	8.4	22.7	59.9	3.2

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

55.3	() walk with improved facilities	31.8	7.1	3.9	1.9
31.2	() bicycle	46.8	13.6	3.9	4.5
9.1	() bus/transit	15.6	56.5	7.1	11.7
3.2	() car (driver or passenger)	1.9	18.8	72.9	3.2

2. If only the alternatives listed below were available for your next 10 trips to school, how many of the 10 trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

24.7 = 0/10 Trips	() walk with improved facilities	4.8
58.6 = 4/10 Trips	() bicycle	2.3
68.4 = 0/10 Trips	() bus/transit	1.3
71.0 = 0/10 Trips	() car (driver or passenger)	1.6
8.4 = 10/10 "	(10) TOTAL TRIPS	10.0

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1.00 will be charged to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

PLEASE TURN TO THE FOLLOWING PAGE.

YOU HAVE JUST READ AN ASSUMED FEE ON AUTO USAGE. IMAGINE THAT THIS SITUATION EXISTS FOR YOUR NEXT SCHOOL TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
a. I believe that a congestion fee of two dollars per day is desirable.	12.0 ()	14.0 ()	12.0 ()	27.5 ()	34.5 ()	
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	1.5 ()	4.5 ()	9.0 ()	38.0 ()	46.0 ()	1.0

2. Please indicate your preference for each of the following transportation alternatives for your next trip to school by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Please repeat this for each of the statements (a) through (c) below.

(If bus service is not available for your school trip, please rank the three remaining alternatives only.)

a. Assume the congestion fee of \$2.00 per day, described on the preceding page, was in effect.

Please rank the following means of transportation for your next trip to school.

Ranked #1		#2	#3	#4	NO ANSWER
37.0	() walk	26.0	14.0	20.5	2.5
26.5	() bicycle	43.0	24.5	4.0	2.0
31.5	() bus/transit	14.0	39.5	5.5	9.5
4.5	() car (driver or passenger)	14.5	19.5	59.0	2.5

b. Assume that instead of \$2.00, the congestion fee increased to \$4.00 per day. (Please rank again.)

38.0	() walk	27.0	17.0	15.5	2.5
27.5	() bicycle	49.5	18.0	3.0	2.0
31.0	() bus/transit	15.5	40.0	4.5	9.0
3.0	() car (driver or passenger)	5.5	22.5	66.5	2.5

c. Assume that in addition to the congestion fee of \$2.00 per day, the price of gasoline increases to \$1.50 per gallon. (Please rank.)

38.5	() walk	27.5	17.5	14.0	2.5
29.5	() bicycle	49.5	16.0	3.0	2.0
28.0	() bus/transit	15.5	44.0	3.5	9.0
3.5	() car (driver or passenger)	5.0	20.0	69.0	2.5

City of Columbus
MAX D. ANDRESS, MAYOR
Columbus, Indiana 47201

October 15, 1978

Dear Resident of Columbus:

The City of Columbus is cooperating in a U.S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.


Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your shopping and personal business trips only. We are interested in your opinion of the transportation services available to you for shopping and personal business trips. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800-328-2933.

Sincerely,


Max D. Andress
Mayor

MDA:cd
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME FOR THE PURPOSE OF SHOPPING OR PERSONAL BUSINESS. PLEASE EXCLUDE ALL MAJOR GROCERY SHOPPING TRIPS.

1. What is the nearest intersection or street address of the place of your most recent shopping or personal business trip from home?

(nearest intersection or street address)

(city)

2. A list of specific shopping and personal business trip purposes is given below. Please check the one trip purpose that best describes your most recent shopping or personal business trip from home (exclude major grocery shopping trips). (CHECK ONE ONLY)

28.0 (%) Minor grocery shopping (one bag or less) 7.5 (%) eat meal 2.3 (%) other professional

19.8 () clothing/shoes 4.0 () post office 18.3 () bank

13.0 () drugs/bookstore 1.5 () library/museum 2.3 () laundry/dry cleaner/shoe repair

5.0 () hardware/Florist/liquor 5.8 () medical/dental 3.8 () barber/beauty shop

NO ANSWER : 0

11.0 () other (please specify)

3. Other than the above stop, did you make any additional stops on the way to and from your shopping/ personal business destination? (CHECK ONE)

37.4 () none (If you answered NONE, go to question 5.)

31.5 () one

19.8 () two

9.5 () three or more

1.8 NO ANSWER

4. Did any of the additional stops between your home and your primary shopping/personal business destination require you to travel more than one mile out of the way?

17.8 () Yes

42.6 () No

NO ADDTL STOPS/NO ANSWER : 39.2 %

5. Approximately how far was it directly from your home to your primary shopping/personal business destination (one way)?

5.0 () 2 blocks ($\frac{1}{2}$ mile or less)

18.0 () 2 to 4 miles

19.5 () 3 to 6 blocks ($\frac{1}{2}$ to $\frac{1}{2}$ mile)

3.0 () 4 to 6 miles

25.9 () $\frac{1}{2}$ to 1 mile

0.5 () 6 to 10 miles

23.8 () 1 to 2 miles

4.0 () over 10 miles

0.3 NO ANSWER

6. How many separate parcels, bags or packages were you carrying? (CHECK ONE)

16.3 (%) none 39.4 () one 25.5 () two 18.3 () three or more 0.5 No ANSWERS

7. How many persons (other than yourself) were with you on this shopping or personal business trip?

total _____ (number)

Children 12 years of age and under _____ (number)

MEAN: 1.03

MEAN: 0.97

8. Where is this place where you went shopping or on personal business located?

42.0 () central city 56.5 () suburban NO ANSWER: 1.5

9. Specify the type of area where you went on your shopping/personal business trip. (CHECK ONE)

16.8/0.13 () central business district (downtown metropolitan area) 7.5/11.3 () regional shopping center

13.0/40.3 () neighborhood business district or shopping center 1.0/2.8 () office park/professional building or shopping center

0.5/4 () college campus 3.0/1.8 () other _____ (please specify)

0.5/0.3 NO ANSWER

10. What was the date of this most recent trip? VARIES (month/day)

11. At approximately what time of day did you make this trip to your shopping/personal business destination?

5.8 () before 9 a.m. () 10 a.m. to 2 p.m.

() 7 a.m. to 8 a.m. 31.0 () 2 p.m. to 6 p.m.

() 8 a.m. to 9 a.m. 12.5 () after 6 p.m.

50.4 () 9 a.m. to 10 a.m. 0.3 NO ANS.

12. How did you make the trip to this shopping/personal business destination? (CHECK ONE)

7.0 () walked all the way — () motorcycle

71.8 () drove a car 1.3 () bicycle

15.3 () passenger in a car — () moped (motorized bicycle)

2.8 () bus 0.8 () taxi

— () train, subway 1.8 () other _____ (please specify)

— NO ANS

12a. If you used a bus or transit, how did you get to your bus or transit stop?

— () bicycle — () drove and parked

— () taxi — () passenger in a car

1.8 () walk 0.3 () other _____ (please specify)

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR
MOST RECENT SHOPPING OR PERSONAL BUSINESS TRIP WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent shopping or personal business trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For the above trip, we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never used it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to my shopping or personal business destination by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending upon how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree, you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under agree, indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your shopping or personal business trip varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful ratings of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF CAR

When using a car, are you usually a:

79.0% car driver

21.0 () car passenger

If you are usually a car driver, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about driving on this trip.

If you are usually a car passenger, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about going to this destination as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWERS
1. Traveling by car to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	() 7.8	() 33.0	() 38.2	() 18.0	() 1.5	1.5
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by car.	() 28.0	() 62.4	() 5.0	() 2.3	() 0.3	1.0
3. I can pick up and go anytime I like when I travel by car on shopping or on personal business trips.	() 20.5	() 56.9	() 5.8	() 5.0	() 1.0	8.8
4. Traveling by car to this shopping/personal business destination is tiring.	() 0.9	() 5.3	() 13.5	() 61.6	() 17.0	1.8
5. Traveling by car to my shopping/personal business destination is dangerous because of the heavy traffic.	() 4.3	() 22.3	() 26.5	() 26.9	() 6.3	1.0
6. When on a shopping/personal business trip with children, it is inconvenient to go by car.	() 7.3	() 17.3	() 12.8	() 41.3	() 17.8	3.5
7. I cannot rely on traveling by car to this destination in rainy weather.	() 2.3	() 4.0	() 5.0	() 59.6	() 27.3	1.8
8. I can easily carry packages when I travel by car while I am on a shopping/personal business trip.	() 34.8	() 59.1	() 0.8	() 2.8	() 1.5	1.0
9. It is uncomfortable to travel by car to this shopping/personal business destination because of rough or bumpy road surfaces.	() 3.0	() 8.5	() 17.5	() 54.5	() 15.0	1.5
10. I can get to my shopping/personal business destination quickly when I travel by car.	() 27.5	() 63.6	() 4.8	() 3.0	() 0.3	0.8
11. I worry about being mugged or assaulted when I travel by car to my shopping/personal business destination.	() 2.0	() 4.0	() 13.0	() 56.4	() 23.3	1.3
12. I worry about being injured in an accident when I travel by car to my shopping/personal business destination.	() 2.3	() 15.0	() 24.8	() 49.6	() 7.3	1.0
13. It is relaxing to travel by car to my shopping/personal business destination.	() 6.8	() 45.1	() 35.3	() 10.3	() 1.0	1.0
14. I dislike traveling by car to this shopping/personal business destination because of the many delays at intersections.	() 2.8	() 16.8	() 20.5	() 51.1	() 8.0	0.8
15. Parking the car at this destination is expensive.	() 0.8	() 1.5	() 6.3	() 59.3	() 31.3	0.3
16. After parking the car, I must walk a long distance when I go to this shopping/personal business destination.	() 0.8	() 3.3	() 9.3	() 67.8	() 18.0	0.3
17. I worry about the car being stolen or vandalized at this destination.	() 0.9	() 8.5	() 13.5	() 57.9	() 18.0	1.3
18. It is inexpensive to buy and operate a car.	() 6.3	() 12.5	() 1.8	() 36.3	() 30.3	1.2
19. Parking the car is no trouble when on this shopping/personal business trip.	() 12.0	() 62.1	() 14.3	() 9.3	() 0.3	1.5

YOUR RATING OF BICYCLE

Was your most recent shopping or personal business destination located less than 4 miles from your home?

31.7 () Yes

18.3 () No

If your answer is YES, please rate the statements below concerning how you would feel about traveling to your shopping or personal business destination, even if you don't own a bicycle or didn't ride a bicycle on your last trip to this destination.

If your answer is NO, please go to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO Ans.
1. Bicycling to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	6.7(%)	33.3()	25.7()	24.8()	8.0()	1.5
2. When shopping or on a personal business trip, it is convenient to stop and do errands, when riding a bicycle.	2.8()	27.2()	18.7()	41.5()	8.0()	1.3
3. I can pick up and go anytime I like when I ride a bicycle to go shopping or on personal business trips.	4.6()	39.5()	16.5()	30.6()	7.0()	1.3
4. Riding a bicycle to this shopping/personal business destination is tiring.	6.4()	28.7()	22.9()	35.6()	5.2()	1.2
5. Riding a bicycle to my shopping/personal business destination is dangerous because of the heavy traffic.	28.1()	49.0()	9.5()	8.9()	2.1()	2.4
6. When on a shopping/personal business trip with children, it is inconvenient to ride the bicycle.	34.3()	36.7()	8.0()	11.6()	7.6()	1.8
7. I cannot rely on riding a bicycle to this destination in rainy weather.	26.6()	57.8()	6.4()	4.9()	2.8()	1.3
8. I can easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	1.5()	12.2()	11.3()	48.7()	24.8()	1.5
9. It is uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	8.0()	19.6()	26.3()	39.4()	5.5()	1.2
10. I can get to my shopping/personal business destination quickly, when I ride a bicycle.	3.7()	36.7()	18.3()	31.8()	8.3()	1.2
11. I worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	2.4()	14.4()	22.3()	51.1()	8.3()	1.5
12. I worry about being injured in an accident when I ride a bicycle to my shopping/personal business destination.	15.3()	45.6()	15.6()	20.8()	2.1()	1.2
13. It is relaxing to ride by bicycle to my shopping/personal business destination.	2.8()	28.4()	26.3()	32.7()	7.0()	2.8
14. I dislike traveling by bicycle to this shopping/personal bus. destination because of many delays at intersections.	5.8()	28.7()	28.1()	33.5()	2.1()	1.8
15. Bicycling to this shopping/personal bus. destination is unsafe due to lack of bike paths separated from motorized traffic.	30.9()	49.3()	12.5()	5.2()	0.9()	1.2
16. Going by bicycle to this destination is dangerous because motorists are inconsiderate of bicyclists.	25.4()	40.7()	21.7()	9.5()	0.9()	1.8
17. When bicycling to this shopping/personal business destination, I worry about perspiring or soiling my clothes.	3.7()	15.6()	32.7()	41.3()	4.9()	1.8
18. Riding a bicycle gives healthful exercise.	36.1()	53.9()	6.7()	1.2()	0.6()	1.5
19. Parking, locking and unlocking my bicycle at this destination is no trouble.	5.2()	26.2()	21.7()	28.1()	7.3()	1.5
20. I worry about my bicycle being stolen at this shopping/personal business destination.	15.0()	43.8()	21.1()	17.7()	1.2()	1.2
21. It is inexpensive to buy and operate a bicycle.	12.5()	50.5()	19.6()	14.1()	2.1()	1.2

YOUR RATING OF BUS (or transit)

Is bus service available between your home and this shopping or personal business destination?

54.2 (95) Yes

45.8 (95) No

If your answer is YES, please rate the statements below concerning how you would feel about going to this destination by bus even if you didn't choose bus on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	100
1. Going to this destination by bus is pleasant because I can enjoy the scenery and surroundings.	4.1 ()	38.8 ()	31.8 ()	19.8 ()	4.1 ()	1.4
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by bus.	4.1 ()	8.9 ()	11.5 ()	56.7 ()	17.5 ()	1.4
3. I must schedule my trips in advance when I travel by bus to go shopping or on personal business trips.	17.5 ()	60.4 ()	11.5 ()	8.3 ()	1.4 ()	0.9
4. Traveling by bus to this shopping/personal business destination is tiring.	4.1 ()	24.2 ()	33.2 ()	30.9 ()	6.9 ()	0.9
5. Traveling by bus to my shopping/personal business destination is dangerous because of the heavy traffic.	1.4 ()	11.1 ()	23.5 ()	50.6 ()	11.1 ()	2.3
6. When on a shopping/personal business trip with children, it is inconvenient to take the bus.	10.1 ()	40.2 ()	24.4 ()	21.2 ()	2.3 ()	1.2
7. I cannot rely on taking a bus to this destination in rainy weather.	5.3 ()	31.3 ()	20.7 ()	33.8 ()	4.1 ()	1.8
8. I can easily carry packages when I travel by bus while I am on a shopping/personal business trip.	0.5 ()	29.5 ()	15.2 ()	44.6 ()	8.8 ()	1.4
9. It is uncomfortable to travel to this destination by bus because of rough or bumpy road surfaces.	3.2 ()	6.9 ()	33.6 ()	48.9 ()	6.0 ()	1.4
10. I can get to my shopping/personal business destination quickly when I travel by bus.	0.9 ()	22.1 ()	23.5 ()	42.9 ()	9.2 ()	1.4
11. I worry about being mugged or assaulted when I travel by bus to my shopping/personal business destination.	1.4 ()	8.3 ()	22.1 ()	58.2 ()	9.7 ()	0.5
12. I worry about being injured in an accident when I travel by bus to my shopping/personal business destination.	0.9 ()	7.4 ()	25.3 ()	56.7 ()	9.2 ()	0.5
13. It is relaxing to travel by bus to my shopping/personal business destination.	3.7 ()	30.0 ()	31.7 ()	30.4 ()	3.7 ()	0.5
14. I dislike traveling by bus to this shopping/personal bus destination because of the many delays at intersections.	5.5 ()	21.7 ()	30.4 ()	37.4 ()	4.1 ()	0.9
15. I must walk a long distance to get to and from the bus when I go to this shopping/personal business destination.	7.8 ()	22.6 ()	15.7 ()	48.4 ()	4.1 ()	1.4
16. There is generally a long wait involved when I travel by bus to this shopping/personal business destination.	9.7 ()	38.7 ()	26.7 ()	20.3 ()	3.7 ()	0.9
17. When traveling by bus to this shopping/personal business destination I worry about perspiring or soiling my clothes.	0.5 ()	7.4 ()	27.2 ()	53.3 ()	11.1 ()	0.5
18. It is inexpensive to travel by bus to this shopping/personal business location.	8.3 ()	46.5 ()	26.3 ()	16.1 ()	2.3 ()	0.5

YOUR RATING OF WALK

Was your most recent shopping or personal business destination located less than 2 miles from your home?

67.0 (%) Yes

33.0 (%) No

If your answer is YES, please rate the statements below concerning how you would feel about walking to this destination even if you did not walk there on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS
1. Walking to this destination is pleasant because I can enjoy the scenery and surroundings.	8.2 (%)	36.9	25.4	23.9	5.2	0.4
2. When shopping or on a personal business trip, it is convenient to stop and do errands when walking.	6.3	48.2	14.9	23.9	6.3	0.4
3. I can pick up and go anytime I like when I walk to go shopping or on personal business trips.	11.2	51.4	11.6	19.8	5.6	0.4
4. Walking to this shopping/personal business destination is tiring.	9.3	33.2	15.3	33.3	8.2	0.7
5. Walking to my shopping/personal business destination is dangerous because of the heavy traffic.	17.5	40.3	13.1	23.5	4.9	0.7
6. When on a shopping/personal business trip with children, it is inconvenient to walk.	20.1	40.8	15.3	14.9	5.2	3.7
7. I cannot rely on walking to this destination in rainy weather.	2.1	55.2	4.1	11.2	3.0	0.4
8. I can easily carry packages when I walk while I am on a shopping/personal business trip.	3.0	22.8	13.1	47.6	13.1	0.4
9. It is uncomfortable to walk to this destination because of rough and bumpy walking surfaces.	11.6	18.7	18.3	44.4	6.3	0.7
10. I can get to my shopping/personal business destination quickly when I walk.	4.9	23.9	14.2	44.7	11.9	0.4
11. I worry about being mugged or assaulted when I walk to my shopping/personal business destination.	7.1	16.8	20.5	43.7	11.1	1.1
12. I worry about being injured in an accident when I walk to my shopping/personal business destination.	10.8	30.6	18.3	32.8	7.1	0.4
13. It is relaxing to walk to my shopping/personal business destination.	6.0	39.4	24.6	22.0	6.3	1.5
14. I dislike walking to this shopping/personal business destination because of the many delays at intersections.	7.1	22.0	19.4	44.4	6.7	0.4
15. Walking to this shopping/personal bus. destination is unsafe due to lack of pathways separated from motorized traffic.	20.1	36.3	9.3	26.1	6.3	1.9
16. Walking to this shopping/personal bus. destination is dangerous because motorists are inconsiderate of pedestrians.	16.0	34.0	27.2	17.9	3.4	1.5
17. When walking to this shopping/personal bus. destination, I worry about perspiring or soiling my clothes.	2.2	9.7	26.1	51.6	9.7	0.7
18. Walking to this shopping/personal business destination gives healthful exercise.	28.7	59.8	7.1	1.5	2.2	0.7

**WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL FOR SHOPPING/
PERSONAL BUSINESS TRIPS.**

1. Imagine that only BUS, WALK, BICYCLE, and CAR (driver or passenger) were available for your most recent shopping/personal business trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. (If bus service was not available for your shopping/personal business trip, please rank the three remaining alternatives.)

<u>RANKED 1</u>	<u>RANKED 2</u>	<u>RANKED 3</u>	<u>RANKED 4</u>	<u>NO ANSWER</u>
2.0 () bus	32.6	11.8	23.3	30.3
5.0 () walk	25.3	41.2	21.5	7.0
4.0 () bicycle	29.3	34.9	23.5	8.3
86.1 () car (driver or passenger)	6.0	3.8	0.8	3.3

2. We would like to know how often you use each of the following means of travel for shopping/personal business trips from home. Place an X under your best estimate of the number of days you have used each means of travel during the last 30 days.

	<u>Did not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO ANSWER</u>
bus	() 86.9	() 5.0	() 0.5	() 0.3	() 1.3	() 1.0	5.0
walk	() 50.7	() 28.8	() 8.3	() 2.3	() 1.8	() 4.3	3.8
drive a car	() 14.5	() 7.8	() 10.0	() 7.3	() 10.3	() 47.6	2.5
passenger in car	() 30.1	() 28.3	() 14.3	() 6.5	() 6.0	() 9.3	5.5
bicycle	() 8.0	() 9.8	() 3.5	() 0.8	() 0.8	() 0.8	4.3
other _____ (specify)	() -	() 1.0	() 0.3	() -	() 0.3	() 0.8	-

3. Assume that on your next shopping/personal business trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below. (If bus service is not available for your shopping/personal business trip, please rank the three remaining alternatives.)

<u>Ranked</u>	(a) \$1.00 Per Gallon	(b) \$1.50 Per Gallon	(c) \$3.00 Per Gallon	(d) \$4.00 Or More Per Gallon
1 2	1 2	1 2	1 2	1 2
12.0% 23.0	walk () 18.8 23.8	walk () 28.1 27.3	walk () 30.7 30.3	walk ()
9.3 27.0	bicycle () 15.8 25.4	bicycle () 25.0 23.1	bicycle () 25.3 30.8	bicycle ()
8.3 27.0	bus () 18.3 20.5	bus () 22.5 17.3	bus () 21.3 16.0	bus ()
65.9 6.5	car () 40.9 13.5	car () 17.8 9.5	car () 16.5 6.0	car ()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU.
PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU SHOP OR DO
PERSONAL BUSINESS BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 4 MILES OR LESS.

1. If you were to ride your bicycle to your shopping/personal business destination, what is your best estimate of the time you would spend doing the following?

getting the bicycle to the street 2.4 (minutes)

riding the bicycle 14.5 (minutes)

parking and locking up the bicycle 3.0 (minutes)

walking from bicycle to destination 2.3 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 21.9 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to your shopping/personal business destination.

2.5 (%) bicycle path (off the street)

1.3 () bicycle lane (on the street)

65.2 () neither

19.0 () don't know

Note: 12% of trips were more than 4 miles

3. What portion of your total trip from home to your shopping/personal business destination is served by bicycle paths or bicycle lanes?

65.3 () none

2.8 () less than 1/4 the distance

1.5 () 1/4 to 1/2 the distance

0.3 () 1/2 to 3/4 the distance

0.8 () more than 3/4 of the distance

17.3 () don't know

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 2 MILES OR LESS.

4. If you were to walk to shopping/personal business, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at shopping/personal business destination?

22.7 (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to your shopping/personal business destination?

24.3 () all or almost all the way

35.4 () part of the way

23.5 () there are none

2.3 () don't know

14.5% of trips are more than 2 miles

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop 5.7 (minutes)

waiting for the bus 10.5 (minutes)

riding on the bus 14.2 (minutes)

walking from bus to destination 4.8 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 34.8 (minutes)

(Averages)

7. Is it necessary to change buses to travel from your home to your shopping/personal business destination?

12.3 (%) Yes

47.6 () No

5.3 Don't know

Bus service not available: 34.8 %

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to your shopping/personal business destination?

8.6 times out of ten

(mean)

9. What is the one-way bus fare on your trip from home to your shopping/personal business destination?

0.26 cents

(mean)

() don't know

10. If you were to go by car to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

walking to the car 1.4 (minutes)

driving or riding 7.4 (minutes)

parking the car 2.3 (minutes)

walking from car to destination 2.2 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 13.7 (minutes)

(Mean Values)

11. What is the parking cost on your trip from home to your shopping/personal business destination?

(CHECK ONE AND SPECIFY THE COST.)

() no charge

() daily charge 1.14 (dollars)

() weekly charge — (dollars)

() monthly charge — (dollars)

Mean

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

48.5 (%) Yes

51.2 () No (IF "NO", GO TO NEXT PAGE.)

0.3 Don't know

2. Did you ride a bicycle during the last month?

24.4 () Yes

23.5 () No (IF "NO", GO TO NEXT PAGE.)

0.3 Don't know

(51.4% did not ride during the year)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h" below) during the last 30 days.

	<u>Did Not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO Answer</u>
a. To work	20.5 ()	3.0 ()	- ()	- ()	- ()	0.3 ()	1.0
b. To school	22.3 ()	0.5 ()	- ()	0.3 ()	0.3 ()	0.8 ()	0.8
c. For personal business	14.0 ()	6.5 ()	2.3 ()	0.5 ()	1.0 ()	0.5 ()	-
d. To visit friends	10.5 ()	9.3 ()	3.0 ()	0.8 ()	0.8 ()	0.3 ()	0.3
e. To go shopping	15.0 ()	6.3 ()	1.5 ()	1.0 ()	0.8 ()	- ()	0.3
f. To a recreational activity	12.8 ()	7.0 ()	3.3 ()	- ()	0.5 ()	0.3 ()	0.4
g. Neighborhood riding	2.0 ()	13.3 ()	5.3 ()	1.5 ()	0.5 ()	2.3 ()	-
h. Long distance riding (over 2 hours)	19.5 ()	3.5 ()	- ()	0.3 ()	0.3 ()	0.8 ()	0.5

(75.2% did not use bicycle during month)

Is your selected shopping or personal business destination located less than 4 miles away from your home?

85.5%) Yes

If your answer is YES, please read below.

14.5%) No

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right-hand side of the road marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for better riding. In addition, high-intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high activity areas, these consist of enclosed storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made freely available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to your shopping or personal business destination assuming the bicycle facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination using the facility improvements described on the previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Bicycling to this shopping/personal bus. destination would be pleasant because I could enjoy the scenery and surroundings.	11.190	() 50.4%	() 22.3%	() 12.9%	() 1.8%	0.6
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when riding a bicycle	8.2%	() 48.6%	() 18.1%	() 21.6%	() 2.7%	0.1
3. I could pick up and go anytime I like when I ride a bicycle on shopping or on personal business trips.	7.0%	() 55.0%	() 15.8%	() 18.7%	() 2.3%	1.2
4. Riding a bicycle to this shopping/personal business destination would be tiring.	4.7 ()	22.8 ()	21.1 ()	46.7 ()	25 ()	1.7
5. Riding a bicycle to my shopping/personal business destination would be dangerous because of the heavy traffic.	5.8 ()	23.4 ()	15.2 ()	49.2 ()	5.8 ()	0.6
6. When on my shopping/personal business trip with children, I would find it convenient to ride the bicycle.	15.3 ()	18.1 ()	15.8 ()	45.6 ()	14.0 ()	1.2
7. I could not rely on riding a bicycle in rainy weather.	16.4 ()	64.2 ()	7.6 ()	9.4 ()	1.8 ()	0.6
8. I could easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	2.3 ()	19.3 ()	14.6 ()	49.7 ()	12.3 ()	1.2
9. It would be uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	4.1 ()	10.5 ()	15.8 ()	62.6 ()	6.4 ()	0.6
10. I could get to my shopping/personal business destination quickly when I ride a bicycle.	8.8 ()	46.2 ()	13.1 ()	21.6 ()	3.5 ()	1.8
11. I would worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	1.8 ()	14.0 ()	26.3 ()	49.7 ()	7.6 ()	0.6
12. I would worry about being injured in an accident when I ride a bicycle to my shopping/personal bus. destination.	4.1 ()	25.7 ()	14.6 ()	49.7 ()	5.3 ()	0.6
13. It would be relaxing to ride by bicycle to my shopping/personal business destination.	7.6 ()	48.0 ()	22.2 ()	18.7 ()	2.3 ()	1.2
14. I would dislike bicycling to this shopping/personal bus. destination because of many delays at intersections.	4.1 ()	20.5 ()	24.6 ()	44.9 ()	5.3 ()	0.6
15. Bicycling to this shopping/personal bus. destination would be unsafe due to lack of bike paths separated from motor traffic.	7.6 ()	25.7 ()	12.3 ()	42.7 ()	9.4 ()	2.3
16. Bicycling to this shopping/personal business destination would be dangerous because motorists are inconsiderate of bikers.	7.6 ()	29.2 ()	18.1 ()	37.5 ()	4.1 ()	3.5
17. When bicycling to this destination, I would worry about perspiring or soiling my clothes.	2.9 ()	11.1 ()	29.2 ()	52.1 ()	3.5 ()	1.2
18. Riding a bicycle would give healthful exercise.	34.5 ()	55.0 ()	7.0 ()	- ()	2.3 ()	1.2
19. Parking, locking and unlocking my bicycle would be no trouble.	12.3 ()	57.8 ()	16.4 ()	11.7 ()	1.2 ()	2.0
20. I would worry about my bicycle being stolen at this shopping/personal business destination.	5.3 ()	24.6 ()	12.1 ()	46.7 ()	4.1 ()	1.2
21. It would be inexpensive to buy and operate a bicycle.	11.1 ()	55.6 ()	12.5 ()	12.9 ()	2.3 ()	1.2

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Please repeat the process for each statement (a) through (c) below. (If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)

<u>RANK 1</u>	<u>RANK 2</u>	travel for your next shopping or personal business trip to the same destination.	<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS.</u>
21.6	33.3	() bicycle with improved facilities	22.8	13.5	8.8
3.5	19.3	() walk	41.6	25.7	9.9
1.8	25.7	() bus/transit	14.0	25.1	33.4
67.9	11.1	() car (driver or passenger)	11.1	2.3	7.6

- a. Now assume the same condition as (a) above, except that the price of gasoline has increased to \$1.50 per gallon (please rank again).

39.7	24.6	() bicycle with improved facilities	15.2	12.3	8.2
9.9	28.7	() walk	31.0	20.5	9.9
10.5	22.2	() bus/transit	14.6	19.3	33.4
34.5	14.0	() car (driver or passenger)	28.7	14.6	8.2

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon (please rank again).

55.6	18.1	() bicycle with improved facilities	8.2	10.5	7.6
12.9	42.7	() walk	22.2	12.3	9.9
15.1	17.5	() bus/transit	22.8	10.5	33.4
10.5	11.1	() car (driver or passenger)	35.7	32.2	10.5

2. If only the alternatives listed below were available for your next 10 shopping or personal business trips, how many of the 10 trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

2.3 () bicycle with improved facilities
 1.0 () walk
 0.6 () bus/transit
 6.1 () car (driver or passenger)

(10) TOTAL TRIPS

(Mean values)

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion, and costly street and highway expenditures. It has been suggested that in order to reduce these problems, people must live nearer to their places of employment, shopping, school, and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six-block (1/2 mile) distance and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to all shopping and personal business destinations without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available; and there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS, or CAR for your shopping or personal business trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statement:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
I would like to live in this type of community.	25.5(%)	46.5()	16.0()	5.5()	3.5()	3.0

2. Please indicate your preference for each of the following transportation alternatives on your shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. (Please repeat the process for each statement (a) through (d) below.)

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next shopping or personal business trip, and assume further that your trip is approximately 1/2 mile (6 blocks) in length. (Please rank the following means of transportation.)

	1	2	3	4		1	2	3	4
() walk	39.5	27.0	17.5	7.5	() bus or transit	3.5	13.0	20.5	39.5
() bicycle	23.5	41.5	12.5	13.5	() car (driver or passenger)	32.0	8.5	31.0	23.0

- b. Now suppose that in addition to the conditions described in (a) above the price of gasoline increased to \$1.50 per gallon. (Please rank the following means of transportation.)

() walk	43.5	31.0	11.5	6.0	() bus or transit	4.5	14.5	41.0	24.5
() bicycle	31.0	38.0	10.5	11.5	() car (driver or passenger)	19.0	6.5	26.5	41.5

- c. Assume the conditions described in (a) above and assume that in addition the speed limit was reduced to 15 m.p.h. in the community. (Please rank the following means of transportation.)

() walk	43.0	31.0	11.0	5.5	() bus or transit	4.5	11.0	42.0	27.0
() bicycle	28.0	41.5	10.0	11.5	() car (driver or passenger)	22.5	6.5	26.0	39.0

- d. Assume again conditions described in (a) above but this time assume no parking was available at your shopping or personal business destination. (Please rank the following means of transportation.)

() walk	51.5	29.5	7.0	2.0	() bus or transit	12.0	10.5	55.0	8.0
() bicycle	24.0	45.0	10.0	8.5	() car (driver or passenger)	9.0	3.5	14.5	63.0

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. AS YOU RECALL, YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 44.2 ^{Mean} (age)
2. What is your sex? 41.8 % () Male 58.2 () Female
3. How many adults (18 or over), including yourself, are there in your household? 2.0 ^{mean}
4. How many minors (under 18) are there in your household? 1.2 ^{mean}
5. Do you have a valid driver's license? 84.2 % () Yes 15.8 () No
6. How many licensed drivers (including yourself) are there in your household? 1.9 ^{Mean}
7. How many automobiles are there in your household? 1.8 ^{mean}
8. Do you own a bicycle? 50.2 % () Yes 49.5 () No NO ANS = 0.3 %
9. How many bicycles are there in your household? 1.6 ^{mean}
10. What type of structure do you live in?

<u>79.9 %</u> single family	<u>—</u> () low-rise apartment (4 to 8 stories)
<u>4.0</u> () duplex	<u>—</u> () high-rise apartment (more than 8 stories)
<u>4.8</u> () townhouse	<u>2.0</u> () other <u> </u>
<u>8.8</u> () walk-up apartment (3 stories or less)	<u>0.5</u> <u>NO ANS.</u> ^(please specify)
11. What is your educational background? (CHECK ONE)

<u>8.0</u> () completed elementary school	<u>10.3</u> () college or technical school graduate
<u>19.3</u> () some high school	<u>2.3</u> () some graduate school
<u>33.5</u> () high school graduate	<u>5.3</u> () completed graduate degree(s)
<u>18.5</u> () some college or technical school	<u>2.8</u> <u>NO ANS.</u>
12. Please indicate your work group below:

<u>35.3 %</u> work 5 or more days a week	<u>2.5</u> () work 1-2 days a week
<u>3.5</u> () work 3-4 days a week	<u>52.7</u> () presently not employed
	<u>6.0</u> <u>NO ANS.</u>

- 64

Is your shopping or personal business destination located less than 2 miles from your home?

72.0 (%) Yes

28.0 (%) No

If your answer is YES, please read below.

If your answer is NO, please go to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrianways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass median. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High-intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches, and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to your shopping or personal business destination, assuming the facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to your shopping or personal business destination using the facility improvements described on the previous page, even if you did not walk there on your last trip.

	<u>Strongly Agree</u>	<u>Agree</u>	<u>Neither Agree Nor Disagree</u>	<u>Disagree</u>	<u>Strongly Disagree</u>
1. Walking to a shopping/personal business destination would be pleasant because I could enjoy the scenery and surroundings.	()	()	()	()	()
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when walking.	()	()	()	()	()
3. I could pick up and go anytime I like when I walk to go shopping or on personal business trips.	()	()	()	()	()
4. Walking to this shopping/personal business destination would be tiring.	()	()	()	()	()
5. Walking to my shopping/personal business destination would be dangerous because of the heavy traffic.	()	()	()	()	()
6. When on a shopping/personal business trip with children, it would be inconvenient to walk.	()	()	()	()	()
7. I could not rely on walking to this destination in rainy weather.	()	()	()	()	()
8. I could easily carry packages when I walk while I am on a shopping/personal business trip.	()	()	()	()	()
9. It would be uncomfortable to walk to this destination because of rough or bumpy walking surfaces.	()	()	()	()	()
10. I could get to my shopping/personal business destination quickly when I walk.	()	()	()	()	()
11. I would worry about being mugged or assaulted when I walk to my shopping/personal business destination.	()	()	()	()	()
12. I would worry about being injured in an accident when I walk to my shopping/personal business destination.	()	()	()	()	()
13. It would be relaxing to walk to my shopping/personal business destination.	()	()	()	()	()
14. I would dislike walking to this destination because of the many delays at intersections.	()	()	()	()	()
15. Walking to my destination would be unsafe because of the lack of pathways that are separated from motorized traffic.	()	()	()	()	()
16. Walking to a shopping/personal business destination would be dangerous because motorists are inconsiderate of pedestrians.	()	()	()	()	()
17. When walking to this destination I would worry about perspiring or soiling my clothes.	()	()	()	()	()
18. Walking would give healthful exercise.	()	()	()	()	()

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat the process for each statement (a) through (c) below. *(If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)*

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next shopping or personal business trip.

<u>RANK 1</u>		<u>RANK 2</u>	<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS.</u>
19.4	() walk with improved facilities	37.5	28.5	5.6	9.0
4.9	() bicycle	28.5	34.0	20.8	11.8
2.8	() bus/transit	14.6	14.6	33.3	34.7
71.5	() car (driver or passenger)	9.7	11.8	3.5	3.5

- b. Now assume the same condition (a) above except that the price of gasoline has increased to \$1.50 per gallon. *(Please rank again.)*

38.2	() walk with improved facilities	28.5	20.8	5.6	6.9
16.0	() bicycle	34.0	25.0	13.2	11.8
7.6	() bus/transit	13.2	18.8	26.4	34.0
36.8	() car (driver or passenger)	14.6	24.3	17.4	6.9

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. *(Please rank.)*

49.2	() walk with improved facilities	30.6	12.5	2.1	5.6
23.6	() bicycle	37.5	17.4	11.1	10.4
12.5	() bus/transit	11.8	24.3	16.7	34.7
13.2	() car (driver or passenger)	9.7	34.1	33.3	9.7

2. If only the alternatives listed below are available for your next ten shopping or personal business trips, how many of the ten trips would you make using each alternative? *(Write the number of trips in the box next to each alternative.)*

- 2.5 () walk with improved facilities
 1.0 () bicycle
 0.6 () bus/transit
 5.9 () car (driver or passenger)

(10) TOTAL TRIPS

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to a \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

Please turn to the following page.

YOU HAVE JUST READ AN ASSUMED REGULATION FOR CAR USAGE. IMAGINE THAT THIS SITUATION FOR CAR USAGE EXISTS FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS
a. I believe that a congestion fee of two dollars per day is desirable.	3.5	(%) 5.5	() 8.5	() 26.5	() 54.5	1.5
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	1.5	() 3.5	() 7.5	() 34.5	() 51.0	2.0

2. Please indicate your preference for each of the following transportation alternatives for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" under your least preferred alternative. Please repeat this for each of the statements (a) through (c) below. (If bus service is not available for this shopping or personal business trip, please rank the remaining three alternatives only.)

- a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect.

Please rank the following means of transportation for your next shopping or personal business trip.

<u>RANK 1</u>		<u>RANK 2</u>	<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS</u>
24.5	() walk	31.0	26.5	8.0	10.0
15.0	() bicycle	30.0	22.5	18.5	14.0
15.0	() bus or transit	17.5	17.0	18.0	32.5
44.0	() car (driver or passenger)	11.0	20.0	18.0	7.0

- b. Assume that instead of \$2.00 the congestion fee increased to \$4.00 per day. (Please rank again.)

33.0	() walk	31.5	21.0	6.0	8.5
14.5	() bicycle	33.0	20.5	13.5	13.5
23.0	() bus or transit	14.0	17.5	13.5	32.0
22.5	() car (driver or passenger)	10.5	26.5	30.0	10.5

- c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

30.5	() walk	31.0	23.0	6.0	9.5
18.5	() bicycle	34.5	20.5	13.5	13.0
22.5	() bus or transit	14.0	19.5	12.0	32.0
26.5	() car (driver or passenger)	10.0	22.5	31.0	10.0

City of Columbus

MAX D. ANDRESS, MAYOR

Columbus, Indiana 47201

October 15, 1978

Dear Resident of Columbus:

The City of Columbus is cooperating in a U. S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your work trips only. We are interested in your opinion of the transportation services available to you between your home and your place of work. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800--328-2933.

Sincerely,



Max D. Andress
Mayor

MDA:sm
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME TO WORK.

1. What is the nearest interest intersection or street address of the place where you work?

(nearest intersection or street address)

(city)

2. Where is the place where you work located: *No Answer: 3.0%*

60.3%) central city

36.8%) suburban

3. Specify the type of area where your work place is located. *(CHECK ONE) No Answer: 0.5%*

16.3%) central business district
(downtown of metropolitan area)

29.3%) industrial district

25.6%) neighborhood business district or
shopping center

5.1%) office park/professional building

2.6%) regional shopping center

5.3%) college campus or school

12.8%) other _____
(please specify)

4. Approximately how far is it from your home to your work place (one way)? *No Answer: 1.0%*

2.5%) 2 blocks or less
($\frac{1}{2}$ mile or less)

23.5%) 2 to 4 miles

6.8%) 3 to 6 blocks
($\frac{1}{2}$ to $\frac{1}{2}$ mile)

8.0%) 4 to 6 miles

21.0%) $\frac{1}{2}$ to 1 mile

4.5%) 6 to 10 miles

27.7%) 1 to 2 miles

5.0%) over 10 miles

5. What was the date of your most recent trip to work?

month/day

6. At approximately what time of day did you make this trip to work? *NO ANSWER: 0.5%*

31.0% () before 7 a.m.

4.5% () 10 a.m. to 2 p.m.

23.7% () 7 a.m. to 8 a.m.

12.8% () 2 p.m. to 6 p.m.

10.3% () 8 a.m. to 9 a.m.

4.5% () after 6 p.m.

2.5% () 9 a.m. to 10 a.m.

7. How did you make your most recent trip to work? (CHECK ONE) *NO ANSWER: 0.5%*

2.2% () walked all the way

.3% () motorcycle

62.5% () drove a car

1.3% () bicycle

9.0% () passenger in a car

— () moped (motorized bicycle)

0.5% () bus

.3% () taxi

— () train or subway

2.0 () other _____
(please specify)

→ 7a. If you answered bus, train or subway above, how did you get to your bus or transit stop?

— () bicycle

— () drove and parked

— () taxi

0.3% () passenger in a car

0.3% () walked

— () other _____
(please specify)

8. Between the time you left home to go to work and the time you returned home, did you make any side trips that required you to travel more than one mile out of your way? *NO ANSWER: 1.3%*

23.3% () yes

75.4% () no

9. Did anyone accompany you on your last work trip? (CHECK ONE) *NO ANSWER: 1.0%*

79.5% () I traveled alone

3.5% () I was with two other persons

15.5% () I was with one other person

.5% () I was with three or more persons

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR MOST RECENT TRIP TO WORK WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent work trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For your travel to work we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never use it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to work by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending on how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under "agree", indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your trip to work varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful rating of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF BICYCLE

Is your work place located less than 6 miles from your home?

95.7% () Yes

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to work even if you don't own a bicycle, or didn't ride a bicycle on your last trip to work.

15% () No

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO Answer
1. Bicycling to work is pleasant because I can enjoy the scenery and surroundings.	7.9%	39.7%	26.5%	22.1%	3.2%	0.6%
2. When biking, it is convenient to stop and do errands on my way to and from work.	1.8%	20.6%	20.6%	47.3%	8.5%	1.2%
3. I can pick up and go anytime I like when I go to work by bicycle.	2.7%	39.2%	22.6%	27.6%	6.5%	0.7%
4. Traveling to work by bicycle is tiring.	9.2%	29.7%	33.0%	30.9%	5.5%	0.7%
5. Riding a bicycle to work is dangerous because of the heavy traffic.	24.7%	50.5%	9.1%	12.2%	2.1%	0.7%
6. When I ride the bicycle to work I worry about being late.	5.0%	31.5%	22.1%	33.7%	3.0%	0.9%
7. I cannot rely on riding a bicycle to work in rainy weather.	2.1%	31.2%	3.1%	31.8%	30.5%	0.9%
8. I can easily carry my briefcase or other packages when I ride the bicycle to work.	1.8%	16.2%	12.4%	53.7%	14.7%	1.2%
9. It is uncomfortable to travel to work by bicycle because of rough and bumpy riding surfaces.	6.8%	26.5%	27.6%	34.4%	3.5%	0.9%
10. I can get to work quickly when I go by bicycle.	2.4%	30.0%	22.1%	32.4%	1.2%	0.7%
11. I worry about being mugged or assaulted when I travel to work by bicycle.	3.5%	13.5%	20.3%	50.9%	10.7%	0.7%
12. I worry about being injured in an accident if I ride the bicycle to work.	11.8%	43.8%	14.5%	22.1%	2.5%	0.7%
13. It is relaxing to travel to work by bicycle.	4.1%	29.7%	28.8%	31.2%	4.4%	1.8%
14. I dislike traveling to work by bicycle because of the many stops and delays at intersections.	5.9%	29.4%	27.1%	33.2%	2.5%	1.2%
15. Riding the bicycle to work is unsafe because of the lack of bike paths that are separated from motorized traffic.	32.5%	50.9%	7.6%	5.1%	1.5%	0.7%
16. Going by bicycle to work is dangerous because motorists are inconsiderate of bicyclists.	26.5%	46.7%	12.5%	8.8%	0.6%	0.7%
17. When bicycling to work I worry about perspiring or soiling my clothes.	10.3%	32.1%	23.8%	30.3%	2.6%	0.7%
18. Riding a bicycle to work gives healthful exercise.	30.3%	60.5%	5.0%	1.5%	0.6%	2.1%
19. Parking, locking and unlocking my bicycle at work is no trouble.	7.9%	50.6%	15.0%	20.6%	4.4%	0.7%
20. After parking my bicycle I must walk a long distance when I go to work.	0.6%	4.1%	10.6%	64.7%	17.5%	1.5%
21. I worry about my bicycle being stolen at work.	8.5%	11.7%	15.7%	30.1%	6.2%	1.2%
22. It is inexpensive to buy and operate a bicycle.	12.7%	52.4%	14.7%	15.5%	2.9%	1.2%

YOUR RATING OF BUS (or transit)

Is bus service available between your home and work place?

0.17% () yes

59.27% () no

If your answer is YES, please rate the statements below concerning how you would feel about going to work by bus even if you didn't choose bus on your last work trip.

If your answer is NO, please go on to the next page.

NO
ANSWER

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Going to work by bus is pleasant because I can enjoy the scenery and surroundings.	4.37% ()	42.27% ()	35.07% ()	13.57% ()	2.57% ()	2.57%
2. When traveling by bus, it is inconvenient to stop and do errands on my way to and from work.	17.87% ()	50.37% ()	4.27% ()	14.17% ()	8.57% ()	—
3. I must schedule my trips in advance when I travel by bus to work.	16.07% ()	61.97% ()	12.97% ()	8.67% ()	— ()	0.67%
4. Traveling by bus to work is very tiring.	4.37% ()	14.17% ()	29.47% ()	46.77% ()	5.57% ()	—
5. Traveling by bus to work is dangerous because of the heavy traffic.	0.67% ()	6.77% ()	20.97% ()	60.17% ()	11.77% ()	—
6. When I take the bus to work I worry about being late.	9.87% ()	37.57% ()	27.07% ()	23.97% ()	1.87% ()	—
7. I cannot rely on taking a bus to work in rainy weather.	6.77% ()	22.77% ()	22.37% ()	43.67% ()	3.77% ()	—
8. I can easily carry my briefcase or other packages when I go to work by bus.	5.57% ()	56.47% ()	16.07% ()	17.87% ()	4.37% ()	—
9. It is uncomfortable to travel to work by bus because of rough and bumpy road surfaces.	4.37% ()	9.87% ()	26.47% ()	55.87% ()	3.17% ()	0.67%
10. I can get to work quickly when I take the bus.	1.27% ()	14.77% ()	28.27% ()	44.37% ()	10.47% ()	1.27%
11. I worry about being nudged or assaulted when I go to work by bus.	— ()	5.57% ()	20.27% ()	60.87% ()	12.37% ()	1.27%
12. I worry about being injured in an accident if I go to work by bus.	0.67% ()	5.57% ()	25.27% ()	57.17% ()	10.57% ()	0.67%
13. It is relaxing to go to work by bus.	1.27% ()	29.47% ()	36.97% ()	28.87% ()	3.17% ()	0.67%
14. I dislike traveling to work by bus because of the many stops and delays at intersections.	9.27% ()	47.37% ()	19.07% ()	22.77% ()	1.87% ()	—
15. I must walk a long distance to get to and from the bus when I go to work.	9.27% ()	27.07% ()	19.47% ()	39.47% ()	4.97% ()	0.67%
16. There is generally a long wait involved when I go to work by bus.	9.07% ()	38.77% ()	32.57% ()	19.67% ()	0.67% ()	0.67%
17. When traveling by bus to work I worry about perspiring or soiling my clothes.	1.27% ()	5.57% ()	25.27% ()	61.47% ()	5.57% ()	1.27%
18. It is inexpensive to travel by bus to work.	5.57% ()	46.17% ()	27.07% ()	19.87% ()	1.27% ()	0.67%

YOUR RATING OF WALK

Is your work place located less than 3 miles from your home?

70% () yes

30% () no

If your answer is YES, please rate the statements below concerning how you would feel about walking to work even if you did not walk on your last work trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Walking to work is pleasant because I can enjoy the scenery and surroundings.	9.3%	44.3%	23.2%	18.9%	3.6%	0.7%
2. When walking, it is convenient to stop and do errands on my way to and from work.	4.6%	22.9%	16.2%	44.6%	10.0%	1.1%
3. I can pick up and go anytime I like when I walk to work.	6.1%	41.1%	19.3%	27.1%	5.7%	0.7%
4. Walking to work is tiring.	7.3%	33.6%	18.9%	32.1%	6.7%	1.1%
5. Walking to work is dangerous because of the heavy traffic.	14.3%	35.2%	15.4%	28.7%	3.7%	0.7%
6. When I walk to work I worry about being late.	11.4%	32.5%	18.2%	32.6%	4.6%	0.7%
7. I cannot rely on walking to work in rainy weather.	28.6%	57.5%	6.1%	6.4%	.7%	0.7%
8. I can easily carry my briefcase or other packages when I walk to work.	4.3%	37.3%	14.3%	32.2%	8.2%	0.7%
9. It is uncomfortable to walk to work because of rough or bumpy walking surfaces.	1.6%	24.6%	22.9%	39.6%	3.2%	1.1%
10. I can get to work quickly when I walk.	3.2%	20.0%	16.4%	40.1%	12.9%	1.4%
11. I worry about being mugged or assaulted when I walk to work.	7.5%	19.3%	14.3%	46.4%	11.4%	1.1%
12. I worry about being injured in an accident if I walk to work.	4.3%	22.9%	20.7%	43.2%	8.2%	0.7%
13. It is relaxing to walk to work.	8.9%	37.6%	24.3%	24.6%	3.2%	1.7%
14. I dislike walking to work because of the many delays at intersections.	3.6%	20.7%	26.4%	42.1%	6.1%	1.1%
15. Walking to work is unsafe because of the lack of pathways that are separated from motorized traffic.	22.1%	37.5%	12.5%	24.3%	2.9%	0.7%
16. Walking to work is dangerous because motorists are inconsiderate of pedestrians.	15.4%	36.4%	26.1%	18.4%	2.5%	0.7%
17. When walking to work I worry about perspiring or soiling my clothes.	5.4%	26.2%	21.1%	41.7%	3.9%	1.1%
18. Walking to work gives healthful exercise.	36.1%	54.9%	6.2%	0.4%	1.1%	0.7%

YOUR RATING OF CAR

When using a car, are you usually a:

27.5% () car driver?

12.5% () car passenger?

If you are usually a car driver, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about driving to work.

If you are usually a car passenger, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about going to work as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Traveling by car to work is pleasant because I can enjoy the scenery and surroundings.	7.3% ()	33.8% ()	4.5% ()	14.8% ()	3.8% ()	1.8%
2. When traveling by car, it is convenient to stop and do errands on my way to and from work.	21.3% ()	61.4% ()	6.3% ()	9.0% ()	1.0% ()	1.0%
3. I can pick up and go anytime I like when I travel by car to work.	26.0% ()	53.9% ()	6.5% ()	10.5% ()	1.8% ()	1.3%
4. Traveling by car to work is tiring.	6.5% ()	2.9% ()	15.5% ()	59.7% ()	22.5% ()	0.8%
5. Traveling by car to work is dangerous because of the heavy traffic.	2.8% ()	19.5% ()	23.8% ()	46.1% ()	6.8% ()	1.5%
6. When I go by car to work I worry about being late.	1.8% ()	4.3% ()	11.5% ()	63.8% ()	17.3% ()	1.3%
7. I cannot rely on traveling by car to work in rainy weather.	1.8% ()	2.0% ()	4.8% ()	58.6% ()	31.8% ()	1.0%
8. I can easily carry my briefcase or other packages when I travel by car to work.	31.5% ()	58.2% ()	4.5% ()	3.5% ()	1.3% ()	1.0%
9. It is uncomfortable to travel by car to work because of rough or bumpy road surfaces.	2.5% ()	5.0% ()	18.8% ()	56.9% ()	15.3% ()	1.5%
10. I can get to work quickly when I travel by car.	27.8% ()	62.1% ()	4.0% ()	3.3% ()	1.5% ()	1.3%
1. I worry about being mugged or assaulted when I travel by car to work.	1.3% ()	2.3% ()	7.3% ()	54.8% ()	34.3% ()	1.0%
2. I worry about being injured in an accident if I travel by car to work.	2.0% ()	13.0% ()	22.5% ()	51.2% ()	10.3% ()	1.0%
3. It is relaxing to travel by car to work.	6.5% ()	43.2% ()	36.5% ()	11.3% ()	0.5% ()	2.0%
4. I dislike traveling by car to work because of the many delays at intersections.	3.2% ()	14.5% ()	25.7% ()	49.3% ()	5.8% ()	1.3%
5. Parking the car at my place of work is expensive.	1.3% ()	2.0% ()	5.3% ()	50.4% ()	40.0% ()	1.0%
6. After parking the car, I must walk a long distance when I go to work.	2.8% ()	6.0% ()	7.2% ()	59.1% ()	24.3% ()	3.8%
7. I worry about the car being stolen or vandalized at work.	4.8% ()	9.5% ()	12.8% ()	55.7% ()	17.3% ()	0.8%
8. It is inexpensive to buy and operate a car.	6.0% ()	12.1% ()	10.8% ()	38.2% ()	32.3% ()	0.8%
9. Parking the car at work is no trouble.	22.5% ()	54.1% ()	4.5% ()	7.3% ()	3.8% ()	0.8%

WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL TO WORK.

Imagine that only BUS, WALK, BICYCLE, and CAR (driver or passenger) were available for your most recent work trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative.

(If bus service was not available for your work trip, please rank the three remaining alternatives.)

Ranked #1		#2	#3	#4	NO ANSWER
1.8%	() bus	21.8%	8.8%	26.5%	41.1%
6.0%	() walk	19.3%	45.6%	21.3%	7.9%
4.3%	() bicycle	46.4%	31.3%	10.0%	2.0%
85.9%	() car (driver or passenger)	5.5%	6.0%	0.3%	2.3%

2. We would like to know how often you use each of the following means of travel for work trips from home. Place an "X" under your best estimate of the number of days you have used each means of travel during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
bus	87.2% ()	3.0% ()	0.5% ()	— ()	0.3% ()	0.5% ()	8.5%
walk	73.8% ()	11.8% ()	1.8% ()	1.8% ()	0.5% ()	2.3% ()	8.0%
drive a car	2.8% ()	5.0% ()	3.5% ()	2.8% ()	6.5% ()	70.6% ()	3.0%
passenger in a car	63.5% ()	12.8% ()	4.8% ()	1.3% ()	2.8% ()	7.0% ()	7.8%
bicycle	84.4% ()	3.5% ()	1.0% ()	— ()	0.8% ()	1.3% ()	9.0%
other — (specify)	— ()	0.8% ()	0.3% ()	0.3% ()	0.5% ()	— ()	98.1%

3. Assume that on your next work trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below.

(If bus service is not available for your work trip, please rank the three remaining alternatives.)

Ranked		(a) \$1.00 Per Gallon		(b) \$1.50 Per Gallon		(c) \$3.00 Per Gallon		(d) \$4.00 Or More Per Gallon	
1	2	1	2	1	2	1	2	1	2
11.5%	15.5% walk	() 14.0%, 20.0% walk	() 20.3%, 27.4% walk	() 21.5%, 31.2% walk	()				
10.3%	39.1% bicycle	() 19.0%, 36.9% bicycle	() 32.4%, 31.8% bicycle	() 34.3%, 34.6% bicycle	()				
7.3%	21.0% bus	() 11.3%, 17.3% bus	() 15.3%, 12.5% bus	() 14.8%, 12.3% bus	()				
66.9%	7.8% car	() 49.6%, 11.5% car	() 25.6%, 13.8% car	() 23.3%, 7.3% car	()				

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU. PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU WORK BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO WORK IS 6 MILES OR LESS.

1. If you were to ride your bicycle to work, what is your best estimate of the time you would spend doing each of the following?

getting the bicycle to the street 2.21 (minutes)

riding the bicycle 17.73 (minutes)

parking and locking up the bicycle 3.20 (minutes)

walking from bicycle to school 1.82 (minutes)

TOTAL TIME FROM HOME TO WORK 24.81 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to work?

1.0% () bicycle path (off the street)

2.5% () bicycle lane (on the street)

71.0% () neither

12.0% () don't know

3. What portion of your total trip from home to work is served by bicycle paths or bicycle lanes?

68.8% () none

3.5% () less than 1/4 the distance

0.8% () 1/4 to 1/2 the distance

0.3% () 1/2 to 3/4 the distance

0.3% () more than 3/4 of the distance

12.8% () don't know

ANSWER IF DISTANCE FROM HOME TO WORK IS 3 MILES OR LESS.

4. If you were to walk to work, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at work? _____ (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to work?

19.8% () all or almost all the way

37.6% () part of the way

17.5% () there are none

1.8% () don't know

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to work, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop 5.97 (minutes)

waiting for the bus 10.14 (minutes)

riding on the bus 16.34 (minutes)

walking from bus to work 5.73 (minutes)

TOTAL TIME FROM HOME TO WORK 37.03 (minutes)

7. Is it necessary to change buses to travel from your home to work?

9.0% () Yes

34.4% () No

5.0% DON'T KNOW

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to work?

8.10 times out of ten

9. What is the one-way bus fare on your trip from home to work?

28 cents () don't know

10. If you were to go by car to work, what is your best estimate of the time you would spend doing each of the following?

walking to the car 1.27 (minutes)

driving or riding 9.29 (minutes)

parking the car 1.79 (minutes)

walking from car to work 2.15 (minutes)

TOTAL TIME FROM HOME TO WORK 14.38 (minutes)

11. What is the parking cost on your trip from home to work? (CHECK ONE AND SPECIFY THE COST.)

() no charge

() daily charge .90 (dollars)

() weekly charge _____ (dollars)

() monthly charge _____ (dollars)

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

54.3% () Yes

45.8% () No (IF "NO", GO TO THE NEXT PAGE.)

2. Did you ride a bicycle during the last 30 days? No Answer: 0.3%

24.5% () Yes

29.5% () No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h") during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
a. To work	18.0% ()	3.5% ()	1.0% ()	0.5% ()	0.5% ()	1.0% ()	—
b. To school	21.5% ()	0.8% ()	0.5% ()	— ()	— ()	— ()	1.8%
c. For personal business	14.0% ()	7.8% ()	1.3% ()	0.3% ()	— ()	0.5% ()	0.8%
d. To visit friends	11.0% ()	9.5% ()	1.8% ()	0.5% ()	— ()	0.8% ()	1.0%
e. To go shopping	15.5% ()	6.3% ()	0.8% ()	0.2% ()	— ()	0.5% ()	0.3%
f. To a recreational activity	10.3% ()	7.5% ()	3.5% ()	1.0% ()	0.3% ()	0.8% ()	1.3%
g. Neighborhood riding	1.5% ()	13.5% ()	4.8% ()	1.8% ()	0.8% ()	1.5% ()	0.8%
h. Long distance riding (over 2 hours)	18.5% ()	4.3% ()	— ()	0.3% ()	0.3% ()	— ()	1.3%

Is your work place located less than 6 miles away from your home?

86.5%) Yes

13.5%) No

If your answer is YES, please read below.

If your answer is NO, please go on to page 11.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO WORK USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right hand side of the road, marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for a better ride. In addition, high intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high employment centers, these consist of enclosed free storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to work, assuming the bicycle facility improvements described above are available to you on your next work trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to work using the facility improvements described on your previous page.

2/11/77

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Bicycling to work would be pleasant because I could enjoy the scenery and surroundings.	9.8%	48.6%	23.7%	13.3%	4.0%	0.6%
2. When biking, it would be convenient to stop and do errands on my way to and from work.	4.6%	26.0%	26.0%	37.0%	5.2%	1.2%
3. I could pick up and go anytime I like when I go to work by bicycle.	5.8%	49.0%	21.4%	19.7%	2.9%	1.2%
4. Traveling to work by bicycle would be tiring.	7.5%	59.5%	19.7%	39.8%	2.9%	0.6%
5. Riding a bicycle to work would be dangerous because of the heavy traffic.	6.4%	17.3%	10.4%	56.1%	9.2%	0.6%
6. If I rode the bicycle to work, I would worry about being late.	4.0%	23.7%	16.8%	50.3%	4.6%	0.6%
7. I could not rely on riding a bicycle to work in rainy weather.	20.2%	68.2%	4.0%	5.8%	1.2%	0.6%
8. I could easily carry my briefcase or other packages when I ride the bicycle to work.	1.2%	21.4%	11.0%	52.6%	12.1%	1.7%
9. It would be uncomfortable to travel to work by bicycle because of rough and bumpy surfaces.	1.7%	8.7%	21.4%	58.9%	8.1%	1.2%
10. I could get to work quickly when I go by bicycle.	2.3%	44.0%	22.5%	26.6%	2.9%	1.7%
11. I would worry about being mugged or assaulted when I travel to work by bicycle.	1.7%	9.2%	18.5%	60.8%	9.2%	0.6%
12. I would worry about being injured in an accident if I ride the bicycle to work.	5.2%	17.9%	19.1%	52.6%	4.0%	1.2%
13. It would be relaxing to travel to work by bicycle.	5.8%	39.9%	25.4%	24.3%	2.3%	2.3%
14. I would dislike traveling to work by bicycle because of the many stops and delays at intersections.	3.5%	19.1%	23.7%	49.1%	4.0%	0.6%
15. Riding the bicycle to work would be unsafe because of lack of bike paths that are separated from motor traffic.	6.9%	15.0%	15.6%	53.2%	8.1%	1.2%
16. Going by bicycle to work would be dangerous because motorists are inconsiderate of bicyclists.	5.8%	26.6%	22.0%	42.1%	2.9%	0.6%
17. When bicycling to work I would worry about perspiring or soiling my clothes.	2.3%	30.6%	24.9%	38.8%	1.7%	1.7%
18. Riding a bicycle to work would give healthful exercise.	28.3%	64.2%	4.0%	1.7%	0.6%	1.2%
19. Parking, locking and unlocking my bicycle at work would be no trouble.	11.6%	65.3%	12.7%	7.2%	0.6%	0.6%
20. After parking my bicycle I would have to walk a long distance when I go to work.	-	4.0%	10.4%	68.8%	16.2%	2.0%
21. I would worry about my bicycle being stolen at work.	3.5%	20.2%	12.7%	53.7%	2.7%	1.2%
22. It would be inexpensive to buy and operate a bicycle.	13.9%	52.6%	12.7%	16.2%	4.0%	0.6%

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and your place of work, rank the three remaining alternatives only.)

- a. Assume the bicycle facilities are in place. please rank the following means of travel for your next trip to work.

ranked #1		#2	#3	#4	1st choice
11.0%	() bicycle with improved facilities	49.1%	23.7%	7.5%	8.7%
7.5%	() walk	16.2%	43.9%	23.7%	8.7%
0.6%	() bus/transit	16.8%	14.5%	30.6%	27.5%
79.8%	() car (driver or passenger)	9.2%	9.2%	0.6%	1.2%

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$ 1.50 per gallon. (Please rank again.)

34.7%	() bicycle with improved facilities	35.3%	17.3%	7.5%	5.2%
12.1%	() walk	23.1%	34.7%	21.4%	8.7%
4.6%	() bus/transit	17.3%	17.9%	24.3%	35.9%
46.8%	() car (driver or passenger)	15.6%	21.4%	9.8%	6.4%

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

51.4%	() bicycle with improved facilities	52.0%	15.6%	5.8%	5.2%
15.0%	() walk	35.8%	24.3%	16.2%	8.7%
9.2%	() bus/transit	15.0%	23.1%	16.8%	35.9%
22.0%	() car (driver or passenger)	18.5%	28.3%	24.3%	6.9%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

58.4% = 58.4/100 trips	() bicycle with improved facilities	1.8
10.0% = 10.0/100 trips	() walk	1.0
86.7% = 86.7/100 trips	() bus/transit	0.4
9.2% = 9.2/100 trips	() car (driver or passenger)	6.8
47.6% = 47.6/100 trips	(10) TOTAL TRIPS	10.0

(Means)

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion and costly street and highway expenditures. It has been suggested that in order to reduce these problems people must live nearer to their places of employment, shopping, school and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six block ($\frac{1}{2}$ mile) distance, and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to work without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available to work places: there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS or CAR for your work trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statement:

I would like to live in this type of community. 21.5% () Strongly Agree 38.5% () Agree 24.5% () Neither Agree Nor Disagree 8.5% () Disagree 5.0% () Strongly Disagree 2.

2. Please indicate your preference for each of the following transportation alternatives on your next trip to work, by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. Please repeat the process for each statement (a) through (d) below.

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next trip to work, and assume further that your trip to work is approximately one mile away. (Please rank the following means of transportation.)

ranked		#1	#2	#3	#4	Rank
19.0%	() walk	27.5%	24.0%	19.5%	5.0%	1
31.0%	() bicycle	37.5%	17.5%	9.5%	4.5%	2
6.5%	() bus or transit	15.5%	23.0%	40.5%	14.5%	3
41.0%	() car (driver or passenger)	13.5%	25.0%	16.0%	4.5%	4

- b. Now suppose that in addition to the conditions described in (a) above, the price of gasoline increased to \$1.50 per gallon. (Please rank again.)

22.0%	() walk	36.5%	19.5%	16.5%	5.5%	1
40.5%	() bicycle	33.0%	14.5%	9.0%	3.5%	2
16.5%	() bus or transit	12.5%	34.5%	29.5%	13.5%	3
26.0%	() car (driver or passenger)	12.5%	25.5%	31.0%	5.0%	4

- c. Assume the conditions described in (a) above and assume that in addition, the speed limit was reduced to 15 mph in the community. (Please rank.)

22.0%	() walk	37.5%	20.5%	14.5%	5.5%	1
40.5%	() bicycle	35.0%	12.5%	9.0%	3.5%	2
9.5%	() bus or transit	11.5%	33.0%	33.0%	14.0%	3
22.0%	() car (driver or passenger)	12.5%	28.0%	29.5%	4.0%	4

- d. Assume again the conditions described in (a) above but this time, assume no parking was available at your work place. (Please rank.)

27.2%	() walk	42.5%	16.0%	7.5%	5.0%	1
14.5%	() bicycle	32.5%	14.5%	7.5%	4.5%	2
12.5%	() bus or transit	13.0%	40.5%	12.5%	14.5%	3
9.5%	() car (driver or passenger)	6.0%	22.0%	56.5%	6.0%	4

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 38.2 (age) (*mean*)
2. What is your sex? 55.0% () Male 45.0% () Female
3. How many adults (18 or over) including yourself are there in your household? 2.0 *mean*
4. How many minors (under 18) are there in your household? 1.0
5. Do you have a valid driver's license? 72.7% () Yes 7.3% () No
6. How many licensed drivers (including yourself) are there in your household? 1.9
7. How many automobiles are there in your household? 1.9
8. Do you own a bicycle? 52.5% () Yes 46.5% () No
9. How many bicycles are there in your household? 1.6
10. What type of structure do you live in? *No Answer: 0.3%*

<u>76.8%</u> () single family	<u>0.5%</u> () low rise apartment (4 to 8 stories)
<u>4.0%</u> () duplex	<u>0.3%</u> () high rise apartment (more than 8 stories)
<u>3.0%</u> () townhouse	<u>3.3%</u> () other _____ (please specify)
<u>11.8%</u> () walk-up apartment (3 stories or less)	
11. What is your educational background? (*CHECK ONE*) *No Answer 0.3%*

<u>5.3%</u> () completed elementary school	<u>17.0%</u> () college or technical school graduate
<u>12.3%</u> () some high school	<u>2.5%</u> () some graduate school
<u>32.8%</u> () high school graduate	<u>5.8%</u> () completed graduate degree(s)
<u>24.0%</u> () some college or technical school	
12. Please indicate your work group below:

<u>90.2%</u> () work 5 or more days a week	<u>2.0%</u> () work 1-2 days a week
<u>6.8%</u> () work 3-4 days a week	<u>1.0%</u> () presently unemployed
13. What is your occupation? (*CHECK ONE*) *No Answer: 0.3%*

<u>26.0%</u> () professional-technical	<u>5.8%</u> () sales worker
<u>11.5%</u> () managerial	<u>16.0%</u> () secretarial-clerical-cashier
<u>31.3%</u> () blue collar	<u>8.8%</u> () other _____ (please specify)
<u>0.3</u> () student	

14. Does your job require you to dress up? (CHECK ONE)

42.0% () usually 12.8% () sometimes 43.9% () not usually

NO ANSW: 1.3%

13. How many workers including yourself are in your household? 1.7

16. Please check the category which includes your approximate family income before taxes.

4.8% () \$5,000 and under

9.89% () \$15,001 - \$17,500

4.8% () \$5,001 - \$7,500

9.07. () \$17,501 - \$20,000

6.8% () \$7,501 - \$10,000

18.49% () \$20,001 - \$25,000

10.3% () \$10,001 - \$12,500

15.34% () \$25,001 - \$50,000

11.0% () \$12,501 - \$15,000

1.5% () Over \$50,000

 $\bar{x}: 19,270$

In the space below we would welcome any other comments you would like to make. Enclose additional pages if you like.

We would like to express our sincere thanks to you for completing this questionnaire.

Is your work place located less than 3 miles from your home?

4.0% () Yes

26.0% No ()

If your answer is YES, please read below.

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO WORK USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrian ways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass medians. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to work, assuming the facility improvements described above are available to you on your next trip to work. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to work using the facility improvements described on the previous page, even if you did not walk on your last trip to work.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
1. Walking to work would be pleasant because I could enjoy the scenery and surroundings.	23.0%	49.2%	19.6%	6.8%	1.4%	-
2. When walking, it would be convenient to stop and do errands on my way to and from work.	6.8%	32.4%	16.9%	39.8%	4.1%	-
3. I could pick up and go anytime I like when I walk to work.	8.8%	44.5%	13.5%	29.1%	3.4%	0.7%
4. Walking to work would be tiring.	5.4%	32.4%	19.6%	37.2%	4.7%	0.7%
5. Walking to work would be dangerous because of the heavy traffic.	8.1%	15.5%	8.1%	59.5%	8.8%	-
6. If I walked to work I would worry about being late.	8.8%	29.7%	15.5%	41.9%	4.1%	-
7. I could not rely on walking to work in rainy weather.	19.6%	64.8%	5.4%	8.8%	0.7%	0.7%
8. I could easily carry my briefcase or other packages when I walk to work.	5.4%	45.3%	12.8%	30.4%	5.4%	0.7%
9. It would be uncomfortable to walk to work because of rough or bumpy walking surfaces.	5.4%	10.1%	13.5%	59.5%	11.5%	-
10. I could get to work quickly when I walk.	4.1%	26.4%	14.9%	47.8%	6.8%	-
11. I would worry about being mugged or assaulted when I walk to work.	6.1%	18.2%	14.9%	53.4%	7.4%	-
12. I would worry about being injured in an accident if I walk to work.	4.1%	11.5%	14.9%	62.7%	6.8%	-
13. It would be relaxing to walk to work.	10.1%	51.4%	20.3%	16.2%	2.0%	-
14. I would dislike walking to work because of the many delays at intersections.	2.0%	11.5%	13.5%	64.9%	8.1%	-
15. Walking to work would be unsafe because of the lack of pathways that are separated from motorized traffic.	6.1%	15.5%	10.1%	52.1%	14.2%	2.0%
16. Walking to work would be dangerous because motorists are inconsiderate of pedestrians.	4.1%	23.6%	11.5%	54.0%	6.1%	0.7%
17. When walking to work I would worry about perspiring or soiling my clothes.	4.7%	25.0%	20.9%	46.0%	3.4%	-
18. Walking to work would give healthful exercise.	35.1%	57.4%	5.4%	1.4%	0.7%	-

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and work place, rank the three remaining alternatives only.)

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next trip to work.

Ranked #1		#2	#3	#4	N/C
14.2%	() walk with improved facilities	31.1%	29.1%	15.5%	10.1%
8.1%	() bicycle	33.1%	37.2%	10.1%	11.5%
1.4%	() bus/transit	18.2%	8.8%	26.4%	45.2%
73.7%	() car (driver or passenger)	6.1%	12.8%	2.7%	4.7%

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$1.50 per gallon. (Please rank again.)

26.4%	() walk with improved facilities	29.0%	21.6%	13.5%	9.5%
19.6%	() bicycle	35.7%	26.4%	6.1%	12.2%
9.5%	() bus/transit	14.9%	15.5%	17.6%	42.5%
40.5%	() car (driver or passenger)	8.8%	23.6%	17.6%	9.5%

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

35.8%	() walk with improved facilities	38.5%	10.8%	9.5%	5.4%
33.8%	() bicycle	32.4%	16.2%	5.4%	12.2%
13.5%	() bus/transit	8.1%	23.0%	12.8%	42.6%
14.2%	() car (driver or passenger)	9.5%	37.8%	28.4%	10.1%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

53.3% = 5/10 TRIPS () walk with improved facilities
 64.2% = 6/10 TRIPS () bicycle
 76.4% = 7/10 TRIPS () bus/transit
 (20.9% = 0/10 trips) () car (driver or passenger)
 41.3% = 4/10 trips (10) TOTAL TRIPS

1.9
 1.3
 0.7
 6.1
 10.0

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1.00 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

PLEASE TURN TO THE FOLLOWING PAGE.

YOU HAVE JUST READ AN ASSUMED FEE ON AUTO USAGE. IMAGINE THAT THIS SITUATION EXISTS FOR YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
a. I believe that a congestion fee of two dollars per day is desirable.	3.5% ()	5.5% ()	7.0% ()	21.0% ()	60.0% ()	3.0%
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	6.0% ()	4.5% ()	5.0% ()	20.5% ()	60.5% ()	3.5%

2. Please indicate your preference for each of the following transportation alternatives for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat this for each of the statements (a) through (d) below.

(If bus service is not available for your work trip, please rank the three remaining alternatives below.)

a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect. Please

rank the following means of transportation for your next trip to work.

ranked #1		#2	#3	#4	NO ANSWER
20.5%	() walk	29.0%	28.5%	14.5%	7.5%
25.0%	() bicycle	36.5%	23.5%	6.0%	9.0%
13.5%	() bus or transit	13.0%	10.0%	16.5%	47.0%
38.0%	() car (driver or passenger)	13.0%	28.0%	16.0%	5.0%

b. Assume that instead of \$2.00, the congestion fee increased to \$4.00 per day. (Please rank again.)

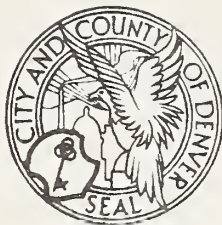
25.5%	() walk	33.5%	22.5%	11.0%	7.5%
33.0%	() bicycle	37.0%	17.0%	4.5%	8.5%
15.0%	() bus or transit	11.0%	18.5%	10.5%	45.0%
22.5%	() car (driver or passenger)	10.0%	32.0%	28.5%	7.0%

c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

25.5%	() walk	34.5%	22.0%	10.0%	8.0%
33.0%	() bicycle	37.0%	16.0%	5.0%	9.0%
14.5%	() bus or transit	11.5%	18.5%	11.0%	44.5%
22.5%	() car (driver or passenger)	7.5%	33.0%	28.5%	8.5%

d. Assume that the congestion fee of \$2.00 per day was in effect, and assume further that your employer allowed you to arrive before 7:00 a.m. and leave before 4:00 p.m., or to arrive after 9:00 a.m. and leave after 6:00 p.m. (Please rank.)

12.0%	() walk	27.0%	33.5%	17.5%	10.0%
11.5%	() bicycle	38.5%	21.5%	9.0%	10.5%
5.5%	() bus or transit	17.0%	9.0%	20.0%	46.85%
65.5%	() car (driver or passenger)	2.5%	15.5%	7.5%	6.0%



W. H. McNICHOLS, JR.
Mayor

CITY AND COUNTY OF DENVER

DENVER PLANNING OFFICE

ROOM 400
1445 CLEVELAND PLACE
DENVER, COLORADO 80202
PHONE (303) 575-2736

October 15, 1978

Dear Resident of Denver:

The City and County of Denver is cooperating in a U.S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire, Your responses will be kept strictly confidential.

This questionnaire is concerned with your shopping and personal business trips only. We are interested in your opinion of the transportation services available to you for shopping and personal business trips. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800--328-2933.

Sincerely,

Alan L. Canter
Director of Planning

ALC:cd
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME FOR THE PURPOSE OF SHOPPING OR PERSONAL BUSINESS. PLEASE EXCLUDE ALL MAJOR GROCERY SHOPPING TRIPS.

1. What is the nearest intersection or street address of the place of your most recent shopping or personal business trip from home?

(nearest intersection or street address)

(city)

2. A list of specific shopping and personal business trip purposes is given below. Please check the one trip purpose that best describes your most recent shopping or personal business trip from home (exclude major grocery shopping trips). (CHECK ONE ONLY)

21.3 (%) Minor grocery shopping (one bag or less) 7.8 (%) eat meal 3.0 (%) other professional
 15.5 () clothing/shoes 3.5 () post office 12.3 () bank
 7.3 () drugs/bookstore 2.3 () library/museum 2.5 () laundry/dry cleaner/shoe repair
 5.0 () hardware/flowerist/liquor 8.5 () medical/dental 4.0 () barber/beauty shop

NO ANSWER : 0.5 %

19.8 () other (please specify)

3. Other than the above stop, did you make any additional stops on the way to and from your shopping/ personal business destination? (CHECK ONE)

41.0 () none (If you answered NONE, go to question 5.)

33.0 () one

16.5 () two

9.0 () three or more

0.5 NO ANSWER

4. Did any of the additional stops between your home and your primary shopping/personal business destination require you to travel more than one mile out of the way?

15.5 () Yes

43.0 () No

NO ADDTL STOPS/NO ANSWER : 41.5

5. Approximately how far was it directly from your home to your primary shopping/personal business destination (one way)?

5.3 () 2 blocks ($\frac{1}{2}$ mile or less)

21.9 () 2 to 4 miles

14.8 () 3 to 6 blocks ($\frac{1}{2}$ to $\frac{1}{2}$ mile)

15.5 () 4 to 6 miles

13.8 () $\frac{1}{2}$ to 1 mile

5.3 () 6 to 10 miles

20.3 () 1 to 2 miles

2.8 () over 10 miles

0.3 NO ANSWER

6. How many separate parcels, bags or packages were you carrying? (CHECK ONE)

21.0 (%) none 35.4 () one 21.8 () two 21.0 () three or more 0.8 NO ANSWER

7. How many persons (other than yourself) were with you on this shopping or personal business trip?

total _____ (number)

Children 12 years of age and under _____ (number)

MEAN: 0.78

MEAN: 0.79

8. Where is this place where you went shopping or on personal business located?

61.5 () central city

36.5 () suburban

NO ANSWER: 2.0

9. Specify the type of area where you went on your shopping/personal business trip. (CHECK ONE)

12.0 / 1 () central business district (downtown metropolitan area) 35 / 4.5 () regional shopping center

37.0 / 22.3 () neighborhood business district or shopping center 4.0 / 1.3 () office park/professional building

0.8 / 0.3 () college campus

5.0 / 3.5 () other _____ (please specify)

0 NO ANSWER

10. What was the date of this most recent trip?

VARIABLES

(month/day)

11. At approximately what time of day did you make this trip to your shopping/personal business destination?

6.3 () before 9 a.m.

() 10 a.m. to 2 p.m.

() 7 a.m. to 8 a.m.

24.8 () 2 p.m. to 6 p.m.

() 8 a.m. to 9 a.m.

10.3 () after 6 p.m.

58.6 () 9 a.m. to 10 a.m.

- NO ANS

12. How did you make the trip to this shopping/personal business destination? (CHECK ONE)

12.8 () walked all the way

- () motorcycle

67.3 () drove a car

2.3 () bicycle

7.0 () passenger in a car

- () moped (motorized bicycle)

10.0 () bus

0.3 () taxi

1 () train, subway

0.3 () other _____ (please specify)

- NO ANS.

12a. If you used a bus or transit, how did you get to your bus or transit stop?

- () bicycle

0.8 () drove and parked

- () taxi

- () passenger in a car

9.3 () walk

- () other _____ (please specify)

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR
MOST RECENT SHOPPING OR PERSONAL BUSINESS TRIP WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent shopping or personal business trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For the above trip, we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never used it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to my shopping or personal business destination by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending upon how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree, you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under agree, indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your shopping or personal business trip varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful ratings of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF BUS (or transit)

Is bus service available between your home and this shopping or personal business destination?

73.5 (9%) Yes

26.5 (9%) No

If your answer is YES, please rate the statements below concerning how you would feel about going to this destination by bus even if you didn't choose bus on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Going to this destination by bus is pleasant because I can enjoy the scenery and surroundings.	5.8 ()	34.7 ()	32.7 ()	18.0 ()	6.8 ()	2.0
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by bus.	1.7 ()	13.6 ()	5.8 ()	53.1 ()	24.1 ()	1.7
3. I must schedule my trips in advance when I travel by bus to go shopping or on personal business trips.	20.1 ()	59.5 ()	7.1 ()	9.9 ()	1.4 ()	2.0
4. Traveling by bus to this shopping/personal business destination is tiring.	9.9 ()	34.0 ()	19.0 ()	30.3 ()	4.8 ()	2.0
5. Traveling by bus to my shopping/personal business destination is dangerous because of the heavy traffic.	1.4 ()	7.8 ()	19.4 ()	55.8 ()	13.9 ()	1.7
6. When on a shopping/personal business trip with children, it is inconvenient to take the bus.	13.6 ()	31.6 ()	22.8 ()	24.1 ()	3.1 ()	4.8
7. I cannot rely on taking a bus to this destination in rainy weather.	8.2 ()	28.6 ()	18.0 ()	37.1 ()	6.1 ()	2.0
8. I can easily carry packages when I travel by bus while I am on a shopping/personal business trip.	1.7 ()	36.4 ()	9.9 ()	36.4 ()	13.6 ()	2.0
9. It is uncomfortable to travel to this destination by bus because of rough or bumpy road surfaces.	2.4 ()	4.4 ()	24.1 ()	56.9 ()	10.5 ()	1.7
10. I can get to my shopping/personal business destination quickly when I travel by bus.	0.7 ()	16.0 ()	12.6 ()	48.9 ()	20.1 ()	1.7
11. I worry about being mugged or assaulted when I travel by bus to my shopping/personal business destination.	2.7 ()	9.9 ()	19.7 ()	51.3 ()	13.3 ()	3.1
12. I worry about being injured in an accident when I travel by bus to my shopping/personal business destination.	0.7 ()	4.4 ()	16.3 ()	58.9 ()	17.7 ()	2.0
13. It is relaxing to travel by bus to my shopping/personal business destination.	3.7 ()	33.6 ()	25.9 ()	27.9 ()	6.5 ()	2.4
14. I dislike traveling by bus to this shopping/personal bus destination because of the many delays at intersections.	9.5 ()	19.7 ()	25.5 ()	40.8 ()	3.1 ()	1.4
15. I must walk a long distance to get to and from the bus when I go to this shopping/personal business destination.	6.1 ()	25.5 ()	15.6 ()	45.0 ()	6.1 ()	1.7
16. There is generally a long wait involved when I travel by bus to this shopping/personal business destination.	20.1 ()	46.3 ()	15.6 ()	15.6 ()	1.0 ()	1.4
17. When traveling by bus to this shopping/personal business destination I worry about perspiring or soiling my clothes.	1.4 ()	6.5 ()	21.1 ()	56.9 ()	13.3 ()	1.7
18. It is inexpensive to travel by bus to this shopping/personal business location.	19.7 ()	46.9 ()	16.7 ()	12.6 ()	2.7 ()	1.4

YOUR RATING OF WALK

Was your most recent shopping or personal business destination located less than 2 miles from your home?

50.7 () Yes

49.3 () No

If your answer is YES, please rate the statements below concerning how you would feel about walking to this destination even if you did not walk there on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
1. Walking to this destination is pleasant because I can enjoy the scenery and surroundings.	20.2(%)	43.3()	14.3()	15.8()	59()	0.5
2. When shopping or on a personal business trip, it is convenient to stop and do errands when walking.	10.3()	48.8()	9.4()	24.1()	69()	0.5
3. I can pick up and go anytime I like when I walk to go shopping or on personal business trips.	14.3()	59.1()	8.4()	12.8()	5.4()	-
4. Walking to this shopping/personal business destination is tiring.	9.4()	25.1()	16.3()	36.9()	12.3()	-
5. Walking to my shopping/personal business destination is dangerous because of the heavy traffic.	3.9()	17.7()	16.3()	51.3()	10.3()	0.5
6. When on a shopping/personal business trip with children, it is inconvenient to walk.	12.3()	31.1()	24.6()	26.6()	7.4()	2.0
7. I cannot rely on walking to this destination in rainy weather.	15.3()	48.2()	9.9()	23.6()	2.5()	0.5
8. I can easily carry packages when I walk while I am on a shopping/personal business trip.	3.4()	33.5()	12.8()	39.0()	11.3()	-
9. It is uncomfortable to walk to this destination because of rough and bumpy walking surfaces.	1.5()	10.8()	14.8()	57.6()	15.3()	-
10. I can get to my shopping/personal business destination quickly when I walk.	6.9()	27.1()	14.8()	37.9()	12.8()	0.5
11. I worry about being mugged or assaulted when I walk to my shopping/personal business destination.	3.0()	12.3()	14.3()	53.8()	16.7()	0.5
12. I worry about being injured in an accident when I walk to my shopping/personal business destination.	3.2()	11.3()	13.3()	56.6()	15.8()	-
13. It is relaxing to walk to my shopping/personal business destination.	12.3()	41.4()	20.2()	21.2()	4.9()	-
14. I dislike walking to this shopping/personal business destination because of the many delays at intersections.	2.0()	12.3()	15.8()	55.1()	14.3()	0.5
15. Walking to this shopping/personal bus. destination is unsafe due to lack of pathways separated from motorized traffic.	6.9()	10.3()	8.9()	60.6()	13.3()	-
16. Walking to this shopping/personal bus. destination is dangerous because motorists are inconsiderate of pedestrians.	11.3()	23.2()	18.2()	41.9()	4.9()	0.5
17. When walking to this shopping/personal bus. destination, I worry about perspiring or soiling my clothes.	2.0()	4.4()	14.8()	61.6()	17.2()	-
18. Walking to this shopping/personal business destination gives healthful exercise.	31.5()	57.2()	4.9()	4.4()	2.0()	-

YOUR RATING OF CAR

When using a car, are you usually a:

84.0 () car driver

16.0 () car passenger

If you are usually a car driver, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about driving on this trip.

If you are usually a car passenger, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about going to this destination as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Ans
1. Traveling by car to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	() 5.5	() 31.3	() 36.4	() 21.0	() 4.8	1.0
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by car.	() 31.0	() 56.2	() 5.0	() 6.5	() 1.3	-
3. I can pick up and go anytime I like when I travel by car on shopping or on personal business trips.	() 34.8	() 55.0	() 4.3	() 4.8	() 0.8	0.3
4. Traveling by car to this shopping/personal business destination is tiring.	() 2.3	() 9.3	() 15.3	() 52.3	() 20.5	0.3
5. Traveling by car to my shopping/personal business destination is dangerous because of the heavy traffic.	() 5.0	() 23.0	() 24.0	() 39.7	() 7.8	0.5
6. When on a shopping/personal business trip with children, it is inconvenient to go by car.	() 5.0	() 13.3	() 17.0	() 42.4	() 19.0	3.3
7. I cannot rely on traveling by car to this destination in rainy weather.	() 0.5	() 4.3	() 4.8	() 54.3	() 34.8	1.3
8. I can easily carry packages when I travel by car while I am on a shopping/personal business trip.	() 37.3	() 56.6	() 1.8	() 2.8	() 1.5	-
9. It is uncomfortable to travel by car to this shopping/personal business destination because of rough or bumpy road surfaces.	() 2.3	() 4.5	() 13.3	() 56.8	() 22.3	0.8
10. I can get to my shopping/personal business destination quickly when I travel by car.	() 33.5	() 58.7	() 3.5	() 3.5	() 0.8	-
11. I worry about being mugged or assaulted when I travel by car to my shopping/personal business destination.	() 0.5	() 2.0	() 10.3	() 53.4	() 33.3	0.5
12. I worry about being injured in an accident when I travel by car to my shopping/personal business destination.	() 2.8	() 14.3	() 23.5	() 42.9	() 15.5	1.0
13. It is relaxing to travel by car to my shopping/personal business destination.	() 9.3	() 30.0	() 34.7	() 21.0	() 4.0	1.0
14. I dislike traveling by car to this shopping/personal business destination because of the many delays at intersections.	() 2.0	() 12.8	() 21.0	() 51.9	() 11.8	0.5
15. Parking the car at this destination is expensive.	() 4.8	() 7.5	() 5.0	() 46.4	() 35.8	0.5
16. After parking the car, I must walk a long distance when I go to this shopping/personal business destination.	() 0.8	() 6.0	() 7.8	() 56.3	() 28.3	0.8
17. I worry about the car being stolen or vandalized at this destination.	() 1.3	() 6.0	() 11.0	() 59.4	() 21.0	1.3
18. It is inexpensive to buy and operate a car.	() 7.0	() 10.8	() 10.3	() 40.8	() 30.3	0.8
19. Parking the car is no trouble when on this shopping/personal business trip.	() 20.0	() 56.6	() 8.3	() 11.8	() 2.8	0.5

YOUR RATING OF BICYCLE

Was your most recent shopping or personal business destination located less than 4 miles from your home?

68.5 () Yes

31.5 () No

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination, even if you don't own a bicycle or didn't ride a bicycle on your last trip to this destination.

If your answer is NO, please go to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSW.
1. Bicycling to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	7.3(%)	44.8()	19.0()	19.0()	8.4()	1.5
2. When shopping or on a personal business trip, it is convenient to stop and do errands, when riding a bicycle.	4.0()	34.4()	14.2()	33.6()	13.1()	1.1
3. I can pick up and go anytime I like when I ride a bicycle to go shopping or on personal business trips.	7.7()	48.8()	14.6()	23.4()	5.1()	1.1
4. Riding a bicycle to this shopping/personal business destination is tiring.	8.0()	28.5()	16.8()	40.1()	5.5()	1.1
5. Riding a bicycle to my shopping/personal business destination is dangerous because of the heavy traffic.	26.6()	40.6()	8.8()	19.3()	2.9()	1.8
6. When on a shopping/personal business trip with children, it is inconvenient to ride the bicycle.	35.4()	41.9()	9.9()	6.2()	4.4()	2.2
7. I cannot rely on riding a bicycle to this destination in rainy weather.	27.7()	53.3()	9.1()	6.6()	1.8()	1.5
8. I can easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	3.3()	12.4()	9.5()	49.9()	23.4()	1.5
9. It is uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	6.6()	15.7()	21.2()	50.3()	4.7()	1.5
10. I can get to my shopping/personal business destination quickly, when I ride a bicycle.	6.2()	40.4()	13.9()	29.6()	8.4()	1.5
11. I worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	2.6()	10.9()	20.8()	50.0()	14.2()	1.5
12. I worry about being injured in an accident when I ride a bicycle to my shopping/personal business destination.	13.5()	40.4()	15.0()	23.0()	6.6()	1.5
13. It is relaxing to ride by bicycle to my shopping/personal business destination.	6.2()	31.7()	25.2()	27.0()	8.4()	1.5
14. I dislike traveling by bicycle to this shopping/personal bus. destination because of many delays at intersections.	4.0()	20.1()	26.6()	40.9()	6.9()	1.5
15. Bicycling to this shopping/personal bus. destination is unsafe due to lack of bike paths separated from motorized traffic.	27.6()	38.7()	12.4()	16.4()	3.3()	2.2
16. Going by bicycle to this destination is dangerous because motorists are inconsiderate of bicyclists.	27.4()	35.7()	14.6()	17.2()	2.2()	2.9
17. When bicycling to this shopping/personal business destination I worry about perspiring or soiling my clothes.	5.5()	12.0()	25.2()	45.9()	9.9()	1.5
18. Riding a bicycle gives healthful exercise.	43.1()	48.9()	3.6()	1.8()	1.1()	1.5
19. Parking, locking and unlocking my bicycle at this destination is no trouble.	6.9()	40.1()	16.1()	28.5()	6.9()	1.5
20. I worry about my bicycle being stolen at this shopping/personal business destination.	13.1()	38.7()	22.6()	21.9()	2.2()	1.5
21. It is inexpensive to buy and operate a bicycle.	17.5()	47.4()	13.5()	17.2()	2.9()	1.5

WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL FOR SHOPPING/ PERSONAL BUSINESS TRIPS.

1. Imagine that only BUS, WALK BICYCLE, and CAR (driver or passenger) were available for your most recent shopping/personal business trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. (If bus service was not available for your

shopping/personal business trip, please rank the three remaining alternatives.)

<u>RANKED 1</u>	<u>RANKED 2</u>	<u>RANKED 3</u>	<u>RANKED 4</u>	<u>NO ANSWER</u>
7.8 () bus	35.4	17.3	20.0	19.5
11.3 () walk	19.0	32.6	30.3	6.8
5.5 () bicycle	25.3	34.4	26.5	8.3
73.3 () car (driver or passenger)	14.3	8.3	1.3	2.8
97.9				

2. We would like to know how often you use each of the following means of travel for shopping/personal business trips from home. Place an X under your best estimate of the number of days you have used each means of travel during the last 30 days.

	Did not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	<u>NO ANSWER</u>
bus	() 58.7	() 20.8	() 5.3	() 3.3	() 0.3	() 2.3	9.3
walk	() 29.3	() 33.9	() 13.5	() 3.5	() 3.5	() 5.8	10.5
drive a car	() 10.8	() 10.8	() 14.8	() 11.5	() 12.5	() 34.3	5.3
passenger in car	() 22.5	() 31.6	() 10.3	() 7.0	() 6.0	() 6.3	16.3
bicycle	() 63.6	() 15.0	() 2.8	() 1.3	() 1.0	() 2.5	13.8
other _____ (specify)	() -	() 1.8	() -	() 0.3	() 0.3	() 0.5	-

3. Assume that on your next shopping/personal business trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below. (If bus service is not available for your shopping/personal business trip, please rank the three remaining alternatives.)

<u>Rank 1</u>		<u>Rank 2</u>		<u>Rank 3</u>		<u>Rank 4</u>		<u>Rank 5</u>		<u>Rank 6</u>	
1	2	(a) \$1.00 Per Gallon	1	2	(b) \$1.50 Per Gallon	1	2	(c) \$3.00 Per Gallon	1	2	(d) \$4.00 Or More Per Gallon
14.0%	19.8	walk ()	18.3	18.3	walk ()	22.3	21.8	walk ()	22.5	24.5	walk ()
10.8	22.8	bicycle ()	15.5	21.0	bicycle ()	23.0	24.4	bicycle ()	24.0	25.2	bicycle ()
17.8	31.6	bus ()	25.8	27.6	bus ()	38.1	22.0	bus ()	38.4	22.5	bus ()
54.9	14.8	car ()	36.5	21.5	car ()	11.5	19.9	car ()	9.5	15.8	car ()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU.
PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU SHOP OR DO
PERSONAL BUSINESS BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 4 MILES OR LESS.

1. If you were to ride your bicycle to your shopping/personal business destination, what is your best estimate of the time you would spend doing the following?

getting the bicycle to the street 2.7 (minutes)

riding the bicycle 16.0 (minutes)

parking and locking up the bicycle 3.1 (minutes)

walking from bicycle to destination 2.0 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 24.4 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to your shopping/personal business destination.

11.3 (~~%~~) bicycle path (off the street) }
6.0 () bicycle lane (on the street) } 2.8 % both

44.4 () neither

16.0 () don't know

NOTE: 19.5% percent of trips were more than 4 miles

3. What portion of your total trip from home to your shopping/personal business destination is served by bicycle paths or bicycle lanes?

44.1 () none

6.8 () less than 1/4 the distance

7.5 () 1/4 to 1/2 the distance

4.8 () 1/2 to 3/4 the distance

1.3 () more than 3/4 of the distance

16.0 () don't know

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 2 MILES OR LESS.

4. If you were to walk to shopping/personal business, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at shopping/personal business destination?

22.7 (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to your shopping/personal business destination?

55.7 () all or almost all the way

12.0 () part of the way

0.5 () there are none

3.0 () don't know

28.8 % of trips are more than 2 miles

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop 5.2 (minutes)

waiting for the bus 14.2 (minutes)

riding on the bus 16.0 (minutes)

walking from bus to destination 5.7 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 39.6 (minutes)

(Averaged)

7. Is it necessary to change buses to travel from your home to your shopping/personal business destination?

34.0(%) Yes

47.2() No

3.0 Don't know

Bus service not available : 15.8 %

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to your shopping/personal business destination?

9.0 times out of ten (mean)

9. What is the one-way bus fare on your trip from home to your shopping/personal business destination?

0.29 cents (mean) () don't know

10. If you were to go by car to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

walking to the car 1.6 (minutes)

driving or riding 9.3 (minutes)

parking the car 2.4 (minutes)

walking from car to destination 2.3 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 15.9 (minutes)

(mean values)

11. What is the parking cost on your trip from home to your shopping/personal business destination?

(CHECK ONE AND SPECIFY THE COST.)

() no charge

() daily charge 1.16 (dollars)

() weekly charge - (dollars)

() monthly charge - (dollars)

Mean

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

46.5 (%) Yes

53.5 () No (IF "NO", GO TO NEXT PAGE.)

2. Did you ride a bicycle during the last month?

26.0 () Yes

10.3 () No (IF "NO", GO TO NEXT PAGE.)

0.3 Don't know

(53.5 did not ride in past year)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h" below) during the last 30 days.

	<u>Did Not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO ANSWER</u>
a. To work	20.0 ()	2.0 ()	0.3 ()	0.8 ()	0.5 ()	1.0 ()	1.5
b. To school	21.0 ()	2.5 ()	- ()	- ()	0.3 ()	0.3 ()	2.0
c. For personal business	10.0 ()	10.5 ()	2.0 ()	0.5 ()	1.0 ()	1.3 ()	0.8
d. To visit friends	10.0 ()	11.3 ()	1.3 ()	0.8 ()	1.5 ()	1.0 ()	0.3
e. To go shopping	13.0 ()	8.8 ()	1.5 ()	1.0 ()	0.5 ()	1.0 ()	0.3
f. To a recreational activity	7.8 ()	10.5 ()	4.0 ()	1.3 ()	0.5 ()	1.8 ()	0.3
g. Neighborhood riding	2.5 ()	13.3 ()	4.5 ()	1.5 ()	1.5 ()	2.5 ()	0.3
h. Long distance riding (over 2 hours)	19.5 ()	4.5 ()	0.3 ()	- ()	- ()	1.0 ()	0.8

(73.8 % did not bike during month)

Is your selected shopping or personal business destination located less than 4 miles away from your home?

70.0 () Yes

If your answer is YES, please read below.

30.0 () No

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right-hand side of the road marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for better riding. In addition, high-intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high activity areas, these consist of enclosed storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made freely available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to your shopping or personal business destination assuming the bicycle facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination using the facility improvements described on the previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Bicycling to this shopping/personal bus. destination would be pleasant because I could enjoy the scenery and surroundings.	() 47.2	() 16.4	() 15.7	() 2.9	()	1.4
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when riding a bicycle	10.0 ()	50.8 ()	15.0 ()	20.7 ()	2.1 ()	1.4
3. I could pick up and go anytime I like when I ride a bicycle on shopping or on personal business trips.	12.9 ()	40.1 ()	11.4 ()	12.1 ()	2.1 ()	1.4
4. Riding a bicycle to this shopping/personal business destination would be tiring.	7.9 ()	25.0 ()	19.3 ()	38.5 ()	7.9 ()	1.4
5. Riding a bicycle to my shopping/personal business destination would be dangerous because of the heavy traffic.	8.6 ()	17.1 ()	11.4 ()	49.4 ()	12.1 ()	1.4
6. When on my shopping/personal business trip with children, I would find it convenient to ride the bicycle.	13.6 ()	13.6 ()	16.4 ()	45.7 ()	18.6 ()	2.1
7. I could not rely on riding a bicycle in rainy weather.	20.0 ()	52.9 ()	12.1 ()	12.9 ()	0.7 ()	1.4
8. I could easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	2.1 ()	13.6 ()	17.9 ()	45.7 ()	19.3 ()	1.4
9. It would be uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	2.1 ()	7.1 ()	15.7 ()	54.4 ()	17.1 ()	3.6
10. I could get to my shopping/personal business destination quickly when I ride a bicycle.	7.9 ()	45.7 ()	14.3 ()	26.4 ()	4.3 ()	1.4
11. I would worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	1.4 ()	11.4 ()	20.0 ()	46.5 ()	19.3 ()	1.4
12. I would worry about being injured in an accident when I ride a bicycle to my shopping/personal bus. destination.	8.6 ()	20.0 ()	14.3 ()	47.1 ()	8.6 ()	1.4
13. It would be relaxing to ride by bicycle to my shopping/personal business destination.	9.3 ()	43.6 ()	17.1 ()	23.6 ()	5.0 ()	1.4
14. I would dislike bicycling to this shopping/personal bus. destination because of many delays at intersections.	2.9 ()	19.3 ()	22.1 ()	49.3 ()	5.0 ()	1.4
15. Bicycling to this shopping/personal bus. destination would be unsafe due to lack of bike paths separated from motor traffic.	() 25.0	() 19.8	() 49.9	() 6.3	()	-
16. Bicycling to this shopping/personal business destination would be dangerous because motorists are inconsiderate of bikers.	9.3 ()	27.9 ()	13.6 ()	41.3 ()	5.0 ()	2.9
17. When bicycling to this destination, I would worry about perspiring or soiling my clothes.	4.3 ()	13.6 ()	26.4 ()	41.4 ()	12.9 ()	1.4
18. Riding a bicycle would give healthful exercise.	40.7 ()	50.8 ()	5.0 ()	2.1 ()	- ()	1.4
19. Parking, locking and unlocking my bicycle would be no trouble.	12.9 ()	62.9 ()	12.1 ()	10.7 ()	- ()	1.4
20. I would worry about my bicycle being stolen at this shopping/personal business destination.	6.4 ()	20.0 ()	15.0 ()	50.1 ()	7.1 ()	1.4
21. It would be inexpensive to buy and operate a bicycle.	22.1 ()	46.5 ()	13.6 ()	14.3 ()	2.1 ()	1.4

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Please repeat the process for each statement (a) through (c) below. *(If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)*

- a. Assume the bicycle facilities are in place. Please rank the following means of travel for your next shopping or personal business trip to the same destination.

<u>RANK 1</u>	<u>RANK 2</u>		<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS.</u>
22.1	32.1	() bicycle with improved facilities	23.6	14.3	7.9
11.4	17.1	() walk	36.5	27.9	7.1
7.1	24.3	() bus/transit	17.9	30.7	20.0
57.1	19.3	() car (driver or passenger)	13.6	4.3	5.7

- b. Now assume the same condition as (a) above, except that the price of gasoline has increased to \$1.50 per gallon *(please rank again)*.

33.6	27.9	() bicycle with improved facilities	19.3	12.1	7.1
15.0	28.6	() walk	25.0	25.7	5.7
17.1	21.4	() bus/transit	21.5	20.7	19.3
32.2	15.7	() car (driver or passenger)	26.4	19.3	6.4

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon *(please rank again)*.

44.4	26.4	() bicycle with improved facilities	10.7	11.4	7.1
15.7	32.9	() walk	25.7	19.3	6.4
24.3	20.7	() bus/transit	22.9	12.1	20.0
13.6	12.9	() car (driver or passenger)	31.4	33.5	8.6

2. If only the alternatives listed below were available for your next 10 shopping or personal business trips, how many of the 10 trips would you make using each alternative? *(Write the number of trips in the box next to each alternative.)*

2.2 () bicycle with improved facilities

1.5 () walk

1.0 () bus/transit

5.4 () car (driver or passenger)

(10) TOTAL TRIPS

(Mean values)

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion, and costly street and highway expenditures. It has been suggested that in order to reduce these problems, people must live nearer to their places of employment, shopping, school, and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six-block (1/2 mile) distance and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to all shopping and personal business destinations without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available; and there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS, or CAR for your shopping or personal business trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statement:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
I would like to live in this type of community.	22.0(%)	40.0()	23.5()	6.0()	9.0()	3.5

2. Please indicate your preference for each of the following transportation alternatives on your shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. (Please repeat the process for each statement (a) through (d) below.)

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next shopping or personal business trip, and assume further that your trip is approximately 1/2 mile (6 blocks) in length. (Please rank the following means of transportation.)

	1	2	3	4		1	2	3	4
() walk	51.0	26.5	13.5	4.5	() bus or transit	8.5	16.0	32.0	32.5
() bicycle	23.5	34.5	9.5	24.0	() car (driver or passenger)	16.0	14.0	35.5	27.0

- b. Now suppose that in addition to the conditions described in (a) above the price of gasoline increased to \$1.50 per gallon. (Please rank the following means of transportation.)

() walk	50.0	30.0	9.0	4.5	() bus or transit	12.0	17.0	38.5	23.0
() bicycle	25.5	33.5	9.0	23.0	() car (driver or passenger)	11.0	10.5	33.5	37.5

- c. Assume the conditions described in (a) above and assume that in addition the speed limit was reduced to 15 m.p.h. in the community. (Please rank the following means of transportation.)

() walk	51.0	30.0	8.5	5.0	() bus or transit	7.0	19.5	39.0	24.0
() bicycle	28.0	34.0	8.5	21.0	() car (driver or passenger)	13.0	7.5	34.0	38.0

- d. Assume again conditions described in (a) above but this time assume no parking was available at your shopping or personal business destination. (Please rank the following means of transportation.)

() walk	57.0	27.0	8.0	3.0	() bus or transit	14.0	22.0	49.0	6.0
() bicycle	23.5	38.0	11.0	17.5	() car (driver or passenger)	4.5	3.5	20.0	59.5

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. AS YOU RECALL, YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 45.1 ^{Mean} (age)
2. What is your sex? 48.8 % () Male 50.9 () Female
3. How many adults (18 or over), including yourself, are there in your household? 2.0 ^{Mean}
4. How many minors (under 18) are there in your household? 0.6 ^{Mean}
5. Do you have a valid driver's license? 90.0 % () Yes 9.5 () No NO ANS. = 0.5 %
6. How many licensed drivers (including yourself) are there in your household? 1.9 ^{Mean}
7. How many automobiles are there in your household? 1.8 ^{mean}
8. Do you own a bicycle? 47.8 % () Yes 52.2 () No
9. How many bicycles are there in your household? 1.3 ^{mean}
10. What type of structure do you live in?

<u>82.2</u> (%) single family	<u>0.5</u> () low-rise apartment (4 to 8 stories)
<u>10.0</u> () duplex	- () high-rise apartment (more than 8 stories)
<u>1.0</u> () townhouse	<u>3.3</u> () other _____
<u>2.5</u> () walk-up apartment (3 stories or less)	<u>0.5</u> ^(please specify) NO ANS.
11. What is your educational background? (CHECK ONE)

<u>1.3</u> () completed elementary school	<u>22.0</u> () college or technical school graduate
<u>10.5</u> () some high school	<u>8.8</u> () some graduate school
<u>18.8</u> () high school graduate	<u>12.3</u> () completed graduate degree(s)
<u>25.8</u> () some college or technical school	<u>0.5</u> NO ANS
12. Please indicate your work group below:

<u>29.3</u> () work 5 or more days a week	<u>5.8</u> () work 1-2 days a week
<u>3.5</u> () work 3-4 days a week	<u>50.4</u> () presently not employed
	<u>11.0</u> NO ANS.

- NO ANS. = 1,8 %

5.3 (1) student

3.0 () sales worker

3,3() secretarial-clerical-cashier

5.8 () other _____
25.8 not employed (please specify)

- 25.8 not employed (plea

- MEAN: \$ 18,060

7.3 () \$15,001 - \$17,500

B.D () \$17,501 - \$20,000

10.5 () \$20,001 - \$25,000

16.1 () \$25,001 - \$50,000

1.5 () Over \$50,000

11.0 NO ANSWER

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the page.

112

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to your shopping or personal business destination using the facility improvements described on the previous page, even if you did not walk there on your last trip.

	<u>Strongly Agree</u>	<u>Agree</u>	<u>Neither Agree Nor Disagree</u>	<u>Disagree</u>	<u>Strongly Disagree</u>
1. Walking to a shopping/personal business destination would be pleasant because I could enjoy the scenery and surroundings.	()	()	()	()	()
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when walking.	()	()	()	()	()
3. I could pick up and go anytime I like when I walk to go shopping or on personal business trips.	()	()	()	()	()
4. Walking to this shopping/personal business destination would be tiring.	()	()	()	()	()
5. Walking to my shopping/personal business destination would be dangerous because of the heavy traffic.	()	()	()	()	()
6. When on a shopping/personal business trip with children, it would be inconvenient to walk.	()	()	()	()	()
7. I could not rely on walking to this destination in rainy weather.	()	()	()	()	()
8. I could easily carry packages when I walk while I am on a shopping/personal business trip.	()	()	()	()	()
9. It would be uncomfortable to walk to this destination because of rough or bumpy walking surfaces.	()	()	()	()	()
10. I could get to my shopping/personal business destination quickly when I walk.	()	()	()	()	()
11. I would worry about being mugged or assaulted when I walk to my shopping/personal business destination.	()	()	()	()	()
12. I would worry about being injured in an accident when I walk to my shopping/personal business destination.	()	()	()	()	()
13. It would be relaxing to walk to my shopping/personal business destination.	()	()	()	()	()
14. I would dislike walking to this destination because of the many delays at intersections.	()	()	()	()	()
15. Walking to my destination would be unsafe because of the lack of pathways that are separated from motorized traffic.	()	()	()	()	()
16. Walking to a shopping/personal business destination would be dangerous because motorists are inconsiderate of pedestrians.	()	()	()	()	()
17. When walking to this destination I would worry about perspiring or soiling my clothes.	()	()	()	()	()
18. Walking would give healthful exercise.	()	()	()	()	()

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat the process for each statement (a) through (c) below. *(If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)*

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next shopping or personal business trip.

<u>RANK 1</u>		<u>RANK 2</u>	<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS.</u>
27.0	() walk with improved facilities	28.8	26.2	13.1	4.9
11.5	() bicycle	27.9	26.2	28.7	5.7
2.5	() bus/transit	20.5	25.4	29.5	22.1
56.5	() car (driver or passenger)	17.2	16.4	6.6	3.3

- b. Now assume the same condition (a) above except that the price of gasoline has increased to \$1.50 per gallon. *(Please rank again.)*

33.6	() walk with improved facilities	30.3	19.7	11.5	4.9
25.4	() bicycle	18.9	25.3	23.8	6.6
9.8	() bus/transit	22.1	24.6	20.5	23.0
28.6	() car (driver or passenger)	23.0	23.8	21.3	3.3

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. *(Please rank.)*

39.4	() walk with improved facilities	34.4	12.3	8.2	5.7
29.4	() bicycle	23.8	24.6	15.6	6.6
18.9	() bus/transit	19.7	27.8	11.5	22.1
9.8	() car (driver or passenger)	15.6	28.7	41.8	4.1

2. If only the alternatives listed below are available for your next ten shopping or personal business trips, how many of the ten trips would you make using each alternative? *(Write the number of trips in the box next to each alternative.)*

2.6 () walk with improved facilities
 1.4 () bicycle
 0.8 () bus/transit
 5.2 () car (driver or passenger)

(10) TOTAL TRIPS

Is your shopping or personal business destination located less than 2 miles from your home?

61.0 (%) Yes

39.0 (%) No

If your answer is YES, please read below.

If your answer is NO, please go to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrianways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass median. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High-intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches, and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to your shopping or personal business destination, assuming the facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to a \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

Please turn to the following page.

YOU HAVE JUST READ AN ASSUMED REGULATION FOR CAR USAGE. IMAGINE THAT THIS SITUATION FOR CAR USAGE EXISTS FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
a. I believe that a congestion fee of two dollars per day is desirable.	11.0%	16.5	14.0	20.0	37.0	1.5
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	0.5	6.5	12.0	40.5	37.5	3.0

2. Please indicate your preference for each of the following transportation alternatives for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" under your least preferred alternative. Please repeat this for each of the statements (a) through (c) below. (If bus service is not available for this shopping or personal business trip, please rank the remaining three alternatives only.)

- a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect.

Please rank the following means of transportation for your next shopping or personal

RANK 1	business trip.	RANK 2	RANK 3	RANK 4	NO ANS.
20.0	() walk	25.5	26.5	20.0	8.0
18.0	() bicycle	23.5	26.5	23.0	9.0
24.5	() bus or transit	25.5	20.5	13.0	16.5
35.0	() car (driver or passenger)	17.5	17.5	25.0	5.0

- b. Assume that instead of \$2.00 the congestion fee increased to \$4.00 per day. (Please rank again.)

21.0	() walk	26.0	27.5	15.0	10.5
20.0	() bicycle	28.0	20.5	20.5	11.0
30.5	() bus or transit	22.0	22.5	8.5	16.5
25.0	() car (driver or passenger)	14.5	18.0	35.5	7.0

- c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

22.5	() walk	24.0	28.5	15.0	10.0
23.5	() bicycle	26.5	19.5	20.0	10.5
32.0	() bus or transit	22.0	21.5	9.0	15.5
19.0	() car (driver or passenger)	19.0	19.5	36.0	6.5



W. H. McNICHOLS, JR.
Mayor

CITY AND COUNTY OF DENVER

DENVER PLANNING OFFICE

ROOM 400
1445 CLEVELAND PLACE
DENVER, COLORADO 80202
PHONE (303) 575-2736

October 15, 1978

Dear Resident of Denver:

The City and County of Denver is cooperating in a U. S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your work trips only. We are interested in your opinion of the transportation services available to you between your home and your place of work. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800--328-2933.

Sincerely,

Alan L. Canter
Director of Planning

ALC:sm
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME TO WORK.

1. What is the nearest interest intersection or street address of the place where you work?

(nearest intersection or street address)

(city)

2. Where is the place where you work located: *NO ANSWER: 1.0%*

63.3% () central city

35.8% () suburban

3. Specify the type of area where your work place is located. (CHECK ONE) *NO ANSWER: 0.8*

22.5% () central business district
(downtown of metropolitan area)

14.8% () industrial district

20.5% () neighborhood business district or
shopping center

9.8% () office park/professional building

3.3% () regional shopping center

9.8% () college campus or school

17.8 () other

(please specify)

4. Approximately how far is it from your home to your work place (one way)? *NO ANSWER: 0.5%*

1.8% () 2 blocks or less
($\frac{1}{2}$ mile or less)

27.1% () 2 to 4 miles

3.5% () 3 to 6 blocks
($\frac{1}{2}$ to $\frac{1}{2}$ mile)

22.5% () 4 to 6 miles

3.5% () $\frac{1}{2}$ to 1 mile

15.3% () 6 to 10 miles

11.0% () 1 to 2 miles

14.8% () over 10 miles

5. What was the date of your most recent trip to work?

month/day

6. At approximately what time of day did you make this trip to work? *NO ANSWER: 0.5%*

22.8% () before 7 a.m.

6.0% () 10 a.m. to 2 p.m.

37.3% () 7 a.m. to 8 a.m.

6.8% () 2 p.m. to 5 p.m.

18.0% () 8 a.m. to 9 a.m.

2.3% () after 6 p.m.

6.3% () 9 a.m. to 10 a.m.

7. How did you make your most recent trip to work? (CHECK ONE) *NO ANSWER: —*

4.3% () walked all the way

1.0% () motorcycle

73.1% () drove a car

3.8% () bicycle

6.5% () passenger in a car

— () moped (motorized bicycle)

9.8% () bus

— () taxi

— () train or subway

1.5% () other _____
(please specify)

7a. If you answered bus, train or subway above, how did you get to your bus or transit stop?

— () bicycle

— () drove and parked

— () taxi

— () passenger in a car

9.8% () walked

— () other _____
(please specify)

8. Between the time you left home to go to work and the time you returned home, did you make any side trips that required you to travel more than one mile out of your way? *NO ANSWER 0.5%*

30.5% () yes

69.0% () no

9. Did anyone accompany you on your last work trip? (CHECK ONE) *No Answer —*

81.9% () I traveled alone

1.8% () I was with two other persons

13.5% () I was with one other person

2.8% () I was with three or more persons

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR
MOST RECENT TRIP TO WORK WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent work trip:
CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For your travel to work we would
like to learn how you feel about each means of transportation. Please give us your opinion of
each means of transportation even if you never use it.

The following pages are labeled with the means of transportation you are asked to rate. Under
each label you will find a set of statements. Please read each statement and place an "X" in the
space that best indicates your agreement with the statements under each means of transportation
you are rating.

For example, consider the following statement for bus:

	<u>Strongly Agree</u>	<u>Agree</u>	<u>Neither Agree Nor Disagree</u>	<u>Disagree</u>	<u>Strongly Disagree</u>
I enjoy traveling to work by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending
on how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under
disagree or strongly disagree. If you neither agree nor disagree you would place an "X" in the center
box. In the example shown here, an "X" has been placed in the box under "agree", indicating this
person enjoys traveling by bus.

*Because we need to understand how your rating of your trip to work varies from one means of
transportation to another, we are asking that you go through the list of characteristics four times,
once for each means of travel (walk, bicycle, car, and bus). Although this process might appear
repetitious, we want to stress that your careful rating of all the statements on the next four pages
are especially important to the success of this survey.*

YOUR RATING OF BICYCLE

Is your work place located less than 6 miles from your home?

65.5%) Yes

34.5% () No

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to work even if you don't own a bicycle, or didn't ride a bicycle on your last trip to work.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Bicycling to work is pleasant because I can enjoy the scenery and surroundings.	20.6%	41.3%	13.7%	16.0%	8.0%	0.4%
2. When biking, it is convenient to stop and do errands on my way to and from work.	3.8%	25.2%	17.6%	43.8%	9.2%	0.4%
3. I can pick up and go anytime I like when I go to work by bicycle.	7.3%	46.5%	16.4%	22.9%	6.1%	0.8%
4. Traveling to work by bicycle is tiring.	7.6%	38.2%	16.4%	33.2%	4.2%	0.7%
5. Riding a bicycle to work is dangerous because of the heavy traffic.	41.9%	38.9%	7.3%	9.2%	2.3%	0.4%
6. When I ride the bicycle to work I worry about being late.	6.9%	22.9%	22.1%	40.4%	6.9%	0.8%
7. I cannot rely on riding a bicycle to work in rainy weather.	26.3%	63.5%	5.3%	3.4%	1.5%	—
8. I can easily carry my briefcase or other packages when I ride the bicycle to work.	3.1%	22.5%	12.2%	44.2%	17.6%	0.4%
9. It is uncomfortable to travel to work by bicycle because of rough and bumpy riding surfaces.	9.2%	29.8%	24.4%	33.2%	3.4%	—
10. I can get to work quickly when I go by bicycle.	3.1%	33.9%	22.1%	31.3%	9.2%	0.4%
11. I worry about being mugged or assaulted when I travel to work by bicycle.	6.1%	16.0%	24.0%	45.1%	8.8%	—
12. I worry about being injured in an accident if I ride the bicycle to work.	28.6%	35.5%	14.1%	18.7%	2.7%	0.4%
13. It is relaxing to travel to work by bicycle.	8.4%	26.3%	28.2%	27.9%	9.2%	—
14. I dislike traveling to work by bicycle because of the many stops and delays at intersections.	9.2%	27.5%	25.2%	35.0%	3.1%	—
15. Riding the bicycle to work is unsafe because of the lack of bike paths that are separated from motorized traffic.	36.6%	40.6%	9.9%	11.8%	1.1%	—
16. Going by bicycle to work is dangerous because motorists are inconsiderate of bicyclists.	35.1%	44.2%	12.2%	7.3%	0.8%	0.4%
17. When bicycling to work I worry about perspiring or soiling my clothes.	15.3%	4.2%	22.1%	19.1%	2.3%	—
18. Riding a bicycle to work gives healthful exercise.	42.7%	49.7%	5.0%	1.5%	1.1%	—
19. Parking, locking and unlocking my bicycle at work is no trouble.	10.7%	45.0%	14.1%	21.8%	8.4%	—
20. After parking my bicycle I must walk a long distance when I go to work.	0.8%	3.1%	12.2%	57.9%	25.6%	0.4%
21. I worry about my bicycle being stolen at work.	14.5%	32.4%	14.1%	32.5%	6.5%	—
22. It is inexpensive to buy and operate a bicycle.	25.6%	45.4%	12.6%	9.9%	6.5%	—

YOUR RATING OF CAR

When using a car, are you usually a:

88.0% () car driver?

12.0% () car passenger?

If you are usually a car driver, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about driving to work.

If you are usually a car passenger, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about going to work as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Traveling by car to work is pleasant because I can enjoy the scenery and surroundings.	3.8% ()	31.8% ()	31.8% ()	23.8% ()	8.0% ()	0.8%
2. When traveling by car, it is convenient to stop and do errands on my way to and from work.	29.3% ()	54.8% ()	5.3% ()	7.8% ()	2.5% ()	0.3%
3. I can pick up and go anytime I like when I travel by car to work.	37.8% ()	48.8% ()	5.5% ()	5.8% ()	1.8% ()	0.3%
4. Traveling by car to work is tiring.	3.8% ()	12.3% ()	20.5% ()	49.3% ()	13.8% ()	0.3%
5. Traveling by car to work is dangerous because of the heavy traffic.	8.3% ()	31.6% ()	25.3% ()	31.0% ()	3.0% ()	0.8%
6. When I go by car to work I worry about being late.	— ()	6.8% ()	12.8% ()	64.4% ()	16.0% ()	—
7. I cannot rely on traveling by car to work in rainy weather.	1.5% ()	2.8% ()	2.5% ()	58.9% ()	34.3% ()	—
8. I can easily carry my briefcase or other packages when I travel by car to work.	38.8% ()	51.6% ()	5.3% ()	3.3% ()	1.0% ()	—
9. It is uncomfortable to travel by car to work because of rough or bumpy road surfaces.	0.8% ()	5.0% ()	13.0% ()	60.2% ()	21.0% ()	—
10. I can get to work quickly when I travel by car.	40.0% ()	51.4% ()	4.3% ()	3.8% ()	0.5% ()	—
11. I worry about being mugged or assaulted when I travel by car to work.	1.3% ()	1.5% ()	4.3% ()	51.6% ()	41.0% ()	0.3%
12. I worry about being injured in an accident if I travel by car to work.	4.0% ()	17.5% ()	29.3% ()	39.6% ()	9.3% ()	0.3%
13. It is relaxing to travel by car to work.	4.3% ()	28.8% ()	36.3% ()	23.3% ()	6.5% ()	0.3%
14. I dislike traveling by car to work because of the many delays at intersections.	4.0% ()	24.0% ()	25.3% ()	46.4% ()	4.0% ()	0.3%
15. Parking the car at my place of work is expensive.	7.5% ()	11.8% ()	6.0% ()	27.2% ()	22.0% ()	0.5%
16. After parking the car, I must walk a long distance when I go to work.	2.0% ()	5.8% ()	6.3% ()	50.3% ()	35.3% ()	0.3%
17. I worry about the car being stolen or vandalized at work.	1.5% ()	12.8% ()	12.8% ()	52.6% ()	19.5% ()	0.8%
18. It is inexpensive to buy and operate a car.	8.0% ()	10.8% ()	8.0% ()	40.2% ()	32.5% ()	0.5%
19. Parking the car at work is no trouble.	29.0% ()	49.0% ()	6.0% ()	11.0% ()	4.5% ()	0.5%

NO ANSWER

YOUR RATING OF BUS (or transit)

Is bus service available between your home and work place?

74.5% () yes

25.5% () no

If your answer is YES, please rate the statements below concerning how you would feel about going to work by bus even if you didn't choose bus on your last work trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Going to work by bus is pleasant because I can enjoy the scenery and surroundings.	8.1%	40.2%	30.9%	16.4%	3.7%	0.7%
2. When traveling by bus, it is inconvenient to stop and do errands on my way to and from work.	34.6%	43.6%	5.4%	11.7%	4.4%	0.3%
3. I must schedule my trips in advance when I travel by bus to work.	27.9%	55.3%	8.1%	6.7%	1.3%	0.7%
4. Traveling by bus to work is very tiring.	6.0%	16.8%	29.2%	35.6%	11.7%	0.7%
5. Traveling by bus to work is dangerous because of the heavy traffic.	1.0%	2.0%	16.8%	56.0%	24.2%	—
6. When I take the bus to work I worry about being late.	15.1%	42.0%	16.1%	22.1%	4.4%	0.3%
7. I cannot rely on taking a bus to work in rainy weather.	6.4%	15.4%	21.1%	46.7%	10.1%	0.3%
8. I can easily carry my briefcase or other packages when I go to work by bus.	7.0%	52.0%	13.8%	22.5%	4.7%	—
9. It is uncomfortable to travel to work by bus because of rough and bumpy road surfaces.	1.7%	8.7%	22.1%	57.1%	9.7%	0.7%
10. I can get to work quickly when I take the bus.	4.4%	10.4%	14.1%	41.9%	29.2%	—
11. I worry about being mugged or assaulted when I go to work by bus.	3.0%	11.7%	18.8%	52.4%	14.1%	—
12. I worry about being injured in an accident if I go to work by bus.	1.0%	1.0%	15.4%	61.8%	20.5%	0.3%
13. It is relaxing to go to work by bus.	8.1%	27.9%	35.1%	23.2%	5.7%	—
14. I dislike traveling to work by bus because of the many stops and delays at intersections.	14.4%	33.6%	22.5%	26.2%	3.0%	0.3%
15. I must walk a long distance to get to and from the bus when I go to work.	8.4%	25.5%	15.4%	40.9%	9.1%	0.7%
16. There is generally a long wait involved when I go to work by bus.	18.1%	44.7%	16.4%	18.5%	2.3%	—
17. When traveling by bus to work I worry about perspiring or soiling my clothes.	1.0%	8.4%	20.5%	54.0%	15.8%	0.3%
18. It is inexpensive to travel by bus to work.	12.1%	41.7%	20.1%	20.1%	5.7%	0.3%

YOUR RATING OF WALK

Is your work place located less than 3 miles from your home?

29.2% () yes

70.2% () no

If your answer is YES, please rate the statements below concerning how you would feel about walking to work even if you did not walk on your last work trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Walking to work is pleasant because I can enjoy the scenery and surroundings.	27.7% ()	43.0% ()	10.9% ()	7.6% ()	5.0% ()	0.8%
2. When walking, it is convenient to stop and do errands on my way to and from work.	5.9% ()	26.1% ()	12.6% ()	41.7% ()	11.8% ()	1.7%
3. I can pick up and go anytime I like when I walk to work.	15.1% ()	44.6% ()	9.2% ()	22.7% ()	7.0% ()	0.3%
4. Walking to work is tiring.	7.6% ()	29.4% ()	14.3% ()	37.8% ()	10.1% ()	0.8%
5. Walking to work is dangerous because of the heavy traffic.	4.2% ()	18.5% ()	17.6% ()	42.8% ()	10.1% ()	0.7%
6. When I walk to work I worry about being late.	7.6% ()	34.5% ()	14.3% ()	36.1% ()	6.7% ()	0.8%
7. I cannot rely on walking to work in rainy weather.	21.8% ()	50.5% ()	5.0% ()	13.4% ()	7.6% ()	1.7%
8. I can easily carry my briefcase or other packages when I walk to work.	5.9% ()	42.9% ()	10.1% ()	29.4% ()	10.9% ()	0.5%
9. It is uncomfortable to walk to work because of rough or bumpy walking surfaces.	3.4% ()	8.4% ()	16.0% ()	57.1% ()	14.3% ()	0.5%
10. I can get to work quickly when I walk.	7.6% ()	16.0% ()	12.6% ()	44.5% ()	19.5% ()	0.5%
11. I worry about being mugged or assaulted when I walk to work.	7.6% ()	21.8% ()	17.6% ()	47.2% ()	5.0% ()	0.5%
12. I worry about being injured in an accident if I walk to work.	0.8% ()	13.4% ()	16.8% ()	57.2% ()	10.1% ()	1.7%
13. It is relaxing to walk to work.	11.8% ()	47.0% ()	24.4% ()	12.6% ()	3.4% ()	0.8%
14. I dislike walking to work because of the many delays at intersections.	1.7% ()	10.9% ()	26.1% ()	51.3% ()	9.2% ()	0.8%
15. Walking to work is unsafe because of the lack of pathways that are separated from motorized traffic.	2.5% ()	18.5% ()	13.4% ()	57.2% ()	7.6% ()	0.5%
16. Walking to work is dangerous because motorists are inconsiderate of pedestrians.	12.6% ()	34.5% ()	18.5% ()	31.1% ()	2.5% ()	0.8%
17. When walking to work I worry about perspiring or soiling my clothes.	1.7% ()	28.6% ()	21.0% ()	42.0% ()	5.9% ()	0.8%
18. Walking to work gives healthful exercise.	45.4% ()	42.9% ()	4.2% ()	4.2% ()	2.5% ()	0.8%

WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL TO WORK.

1. Imagine that only BUS, WALK, BICYCLE, and CAR (driver or passenger) were available for your most recent work trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative.

(If bus service was not available for your work trip, please rank the three remaining alternatives.)

Ranked 1		Ranked 2	Ranked 3	Ranked 4	No Answer
8.0%	() bus	38.4%	12.8%	12.3%	28.5%
6.0%	() walk	9.3%	35.3%	43.9%	5.5%
10.3%	() bicycle	34.8%	39.8%	10.3%	4.8%
74.1%	() car (driver or passenger)	3.3%	6.8%	4.0%	1.8%

2. We would like to know how often you use each of the following means of travel for work trips from home. Place an "X" under your best estimate of the number of days you have used each means of travel during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	No Answer
bus	71.6%	8.8%	2.8%	1.8%	3.0%	5.0%	7.0%
walk	78.7%	6.3%	0.8%	0.8%	1.8%	2.3%	9.3%
drive a car	9.3%	8.5%	6.9%	6.0%	12.8%	52.6%	4.0%
passenger in a car	60.9%	18.5%	3.5%	2.8%	2.5%	2.3%	9.5%
bicycle	77.8%	6.3%	2.5%	1.0%	0.8%	2.8%	8.8%
other _____ (specify)	- ()	0.2%	0.3%	- ()	0.3%	0.8%	97.8%

3. Assume that on your next work trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below.

(If bus service is not available for your work trip, please rank the three remaining alternatives.)

Ranked 1, 2	(a) \$1.00 Per Gallon	(b) \$1.50 Per Gallon	(c) \$3.00 Per Gallon	(d) \$4.00 Or More Per Gallon
6.0%, 10.5%	walk () 6.0%, 11.8%	walk () 7.8%, 17.8%	walk () 8.0%, 20.0%	walk ()
13.3%, 27.8%	bicycle () 15.8%, 27.8%	bicycle () 25.0%, 27.8%	bicycle () 27.3%, 27.7%	bicycle ()
15.8%, 37.6%	bus () 23.5%, 33.2%	bus () 38.4%, 21.5%	bus () 39.2%, 20.8%	bus ()
62.1%, 13.5%	car () 51.7%, 17.0%	car () 25.4%, 21.3%	car () 22.3%, 19.3%	car ()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU. PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU WORK BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO WORK IS 6 MILES OR LESS.

1. If you were to ride your bicycle to work, what is your best estimate of the time you would spend doing each of the following?

getting the bicycle to the street 2.26 (minutes)

riding the bicycle 24.33 (minutes)

parking and locking up the bicycle 3.41 (minutes)

walking from bicycle to school 1.55 (minutes)

TOTAL TIME FROM HOME TO WORK 31.06 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to work?

14.8% () bicycle path (off the street)

11.5% () bicycle lane (on the street)

29.1% () neither

10.8% () don't know

6.0% Both Bike Lane and Path

3. What portion of your total trip from home to work is served by bicycle paths or bicycle lanes?

29.6% () none

11.5% () less than 1/4 the distance

13.3% () 1/4 to 1/2 the distance

5.5% () 1/2 to 3/4 the distance

2.3% () more than 3/4 of the distance

11.0% () don't know

ANSWER IF DISTANCE FROM HOME TO WORK IS 3 MILES OR LESS.

4. If you were to walk to work, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at work? (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to work?

29.8% () all or almost all the way

6.3% () part of the way

0.8% () there are none

1.3% () don't know

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to work, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop 5.55 (minutes)

waiting for the bus 11.53 (minutes)

riding on the bus 22.32 (minutes)

walking from bus to work 6.69 (minutes)

TOTAL TIME FROM HOME TO WORK 44.73 (minutes)

7. Is it necessary to change buses to travel from your home to work?

40.47% () Yes

34.57% () No

2.39% DONT KNOW

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to work?

7.85 times out of ten

9. What is the one-way bus fare on your trip from home to work?

43 cents

() don't know

10. If you were to go by car to work, what is your best estimate of the time you would spend doing each of the following?

walking to the car 1.37 (minutes)

driving or riding 13.98 (minutes)

parking the car 1.82 (minutes)

walking from car to work 2.03 (minutes)

TOTAL TIME FROM HOME TO WORK 19.32 (minutes)

11. What is the parking cost on your trip from home to work? (CHECK ONE AND SPECIFY THE COST.)

77.59% () no charge

14.59% () daily charge 1.25 (dollars)

0.89% () weekly charge _____ (dollars)

4.39% () monthly charge _____ (dollars)

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

62.8% () Yes

37.3% () No (IF "NO", GO TO THE NEXT PAGE.)

2. Did you ride a bicycle during the last 30 days?

36.8% () Yes

25.5% () No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h") during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
a. To work	24.0% ()	5.8% ()	2.5% ()	0.8% ()	0.5% ()	3.0% ()	0.3%
b. To school	29.0% ()	2.3% ()	0.3% ()	— ()	0.5% ()	1.0% ()	3.8%
c. For personal business	14.5% ()	17.3% ()	2.0% ()	0.3% ()	0.5% ()	1.5% ()	0.8%
d. To visit friends	16.5% ()	16.8% ()	1.5% ()	0.3% ()	0.3% ()	1.0% ()	0.5%
e. To go shopping	20.3% ()	13.5% ()	1.0% ()	— ()	0.5% ()	0.5% ()	1.0%
f. To a recreational activity	8.8% ()	19.3% ()	4.8% ()	0.8% ()	0.8% ()	1.8% ()	0.8%
g. Neighborhood riding	4.0% ()	20.5% ()	8.0% ()	1.8% ()	0.5% ()	2.0% ()	—
h. Long distance riding (over 2 hours)	26.8% ()	7.0% ()	0.5% ()	0.3% ()	0.3% ()	0.8% ()	1.3%

Is your work place located less than 6 miles away from your home?

64.0% () Yes

36.0% () No

If your answer is YES, please read below.

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO WORK USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right hand side of the road, marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for a better ride. In addition, high intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high employment centers, these consist of enclosed free storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to work, assuming the bicycle facility improvements described above are available to you on your next work trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to work using the facility improvements described on your previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Bicycling to work would be pleasant because I could enjoy the scenery and surroundings.	22.7%	53.9%	11.7%	8.6%	3.1%	—
2. When biking, it would be convenient to stop and do errands on my way to and from work.	7.8%	30.5%	18.8%	39.8%	2.3%	0.8%
3. I could pick up and go anytime I like when I go to work by bicycle.	9.4%	56.2%	14.1%	16.4%	3.9%	—
4. Traveling to work by bicycle would be tiring.	5.5%	27.3%	18.8%	46.1%	2.3%	—
5. Riding a bicycle to work would be dangerous because of the heavy traffic.	5.5%	19.5%	13.3%	51.5%	10.2%	—
6. If I rode the bicycle to work, I would worry about being late.	4.7%	19.5%	11.7%	57.1%	7.0%	—
7. I could not rely on riding a bicycle to work in rainy weather.	16.4%	68.7%	6.3%	7.8%	0.8%	—
8. I could easily carry my briefcase or other packages when I ride the bicycle to work.	1.6%	27.3%	11.7%	50.0%	9.4%	—
9. It would be uncomfortable to travel to work by bicycle because of rough and bumpy surfaces.	3.1%	9.6%	10.9%	64.9%	11.7%	0.8%
10. I could get to work quickly when I go by bicycle.	6.3%	51.5%	14.8%	31.9%	5.5%	—
11. I would worry about being mugged or assaulted when I travel to work by bicycle.	2.3%	15.6%	14.8%	58.7%	7.8%	0.8%
12. I would worry about being injured in an accident if I ride the bicycle to work.	4.7%	18.8%	14.8%	55.4%	5.5%	0.8%
13. It would be relaxing to travel to work by bicycle.	7.0%	43.0%	21.1%	26.6%	2.3%	—
14. I would dislike traveling to work by bicycle because of the many stops and delays at intersections.	2.3%	17.2%	19.5%	57.1%	3.1%	0.8%
15. Riding the bicycle to work would be unsafe because of lack of bike paths that are separated from motor traffic.	4.7%	16.4%	10.2%	54.6%	13.3%	0.8%
16. Going by bicycle to work would be dangerous because motorists are inconsiderate of bicyclists.	7.8%	31.3%	11.7%	44.5%	4.7%	—
17. When bicycling to work I would worry about perspiring or soiling my clothes.	4.7%	28.1%	21.1%	40.6%	5.5%	—
18. Riding a bicycle to work would give healthful exercise.	39.1%	54.7%	2.3%	3.1%	0.8%	—
19. Parking, locking and unlocking my bicycle at work would be no trouble.	15.6%	60.9%	16.2%	11.7%	1.6%	—
20. After parking my bicycle I would have to walk a long distance when I go to work.	—	2.3%	15.6%	63.3%	18.0%	0.8%
21. I would worry about my bicycle being stolen at work.	2.3%	17.2%	13.3%	57.8%	9.4%	—
22. It would be inexpensive to buy and operate a bicycle.	19.5%	51.6%	11.7%	14.1%	3.1%	—

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and your place of work, rank the three remaining alternatives only.)

- a. Assume the bicycle facilities are in place, please rank the following means of travel for your next trip to work.

<u>RANKED #1</u>		<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>ANSWERS</u>
25.8%	() bicycle with improved facilities	33.5%	30.5%	6.3%	3.9%
3.9%	() walk	14.8%	25.8%	51.6%	3.9%
10.2%	() bus/transit	29.6%	26.6%	12.5%	21.1%
59.3%	() car (driver or passenger)	18.8%	13.3%	7.0%	1.6%

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$ 1.50 per gallon. (Please rank again.)

35.9%	() bicycle with improved facilities	30.5%	24.2%	5.5%	3.9%
6.3%	() walk	15.6%	27.3%	46.9%	3.9%
19.5%	() bus/transit	27.3%	22.7%	10.2%	20.3%
37.5%	() car (driver or passenger)	23.4%	21.9%	15.6%	1.6%

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

46.1%	() bicycle with improved facilities	28.9%	15.6%	5.5%	3.9%
9.4%	() walk	19.5%	29.7%	37.5%	3.9%
26.6%	() bus/transit	28.8%	18.0%	7.8%	18.8%
17.2%	() car (driver or passenger)	19.5%	32.9%	27.3%	3.1%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

52.4% = 0/10 trips	() bicycle with improved facilities	2.3
79.8% = 0/10 trips	() walk	0.7
52.5% = 0/10 trips	() bus/transit	1.8
24.2% = 0/10 trips	() car (driver or passenger)	5.2
33.6% = 10/10 trips	(10) TOTAL TRIPS	10.0

(Means)

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion and costly street and highway expenditures. It has been suggested that in order to reduce these problems people must live nearer to their places of employment, shopping, school and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six block ($\frac{1}{2}$ mile) distance, and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to work without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available to work places; there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS or CAR for your work trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statement:

I would like to live in this type of community. 26.0%) 38.5%) 16.5%) 11.0%) 5.5%) 2.5%)

Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NC
26.0%	38.5%	16.5%	11.0%	5.5%	2.5%

2. Please indicate your preference for each of the following transportation alternatives on your next trip to work, by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. Please repeat the process for each statement (a) through (d) below.

a. Assume the living conditions and special transportation facilities described on the previous page exist for your next trip to work, and assume further that your trip to work is approximately one mile away. (Please rank the following means of transportation.)

Ranked #1	Ranked #2	Ranked #3	Ranked #4	NC
31.5%	36.0%	16.0%	13.5%	3.0%
40.0%	35.5%	13.0%	7.5%	4.0%
9.5%	14.0%	39.5%	31.0%	6.0%
18.0%	11.0%	28.0%	41.0%	2.0%
() walk				
() bicycle				
() bus or transit				
() car (driver or passenger)				

b. Now suppose that in addition to the conditions described in (a) above, the price of gasoline increased to \$1.50 per gallon. (Please rank again.)

32.5%	36.0%	17.0%	11.5%	3.0%
40.5%	37.0%	12.0%	6.5%	4.0%
12.5%	12.0%	45.5%	22.5%	7.5%
13.0%	11.5%	21.5%	52.0%	2.0%
() walk				
() bicycle				
() bus or transit				
() car (driver or passenger)				

c. Assume the conditions described in (a) above and assume that in addition, the speed limit was reduced to 15 mph in the community. (Please rank.)

36.5%	35.5%	16.0%	9.5%	2.5%
43.0%	38.5%	9.0%	5.5%	4.0%
9.5%	12.5%	48.0%	22.5%	7.5%
9.5%	10.0%	23.0%	55.0%	2.5%
() walk				
() bicycle				
() bus or transit				
() car (driver or passenger)				

d. Assume again the conditions described in (a) above but this time, assume no parking was available at your work place. (Please rank.)

34.5%	39.5%	13.5%	6.0%	2.5%
40.0%	39.5%	12.5%	4.0%	4.0%
17.0%	13.5%	57.0%	6.0%	6.5%
3.0%	4.0%	12.0%	75.0%	5.5%
() walk				
() bicycle				
() bus or transit				
() car (driver or passenger)				

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 35.3 (age) (Mean)
2. What is your sex? 50% () Male 50% () Female
3. How many adults (18 or over) including yourself are there in your household? 2.0
4. How many minors (under 18) are there in your household? 0.5
5. Do you have a valid driver's license? 76.2% () Yes 3.8% () No
6. How many licensed drivers (including yourself) are there in your household? 1.9
7. How many automobiles are there in your household? 1.9
8. Do you own a bicycle? 65.2% () Yes 34.8% () No
9. How many bicycles are there in your household? 1.6
10. What type of structure do you live in?

77.9% () single family	— () low rise apartment (4 to 8 stories)
12.0% () duplex	— () high rise apartment (more than 8 stories)
1.3% () townhouse	2.0% () other <u>(please specify)</u>
6.8% () walk-up apartment (3 stories or less)	
11. What is your educational background? (CHECK ONE) No Answer 0.3%

1.5% () completed elementary school	24.0% () college or technical school graduate
4.3% () some high school	11.0% () some graduate school
11.0% () high school graduate	15.8% () completed graduate degree(s)
32.1% () some college or technical school	
12. Please indicate your work group below:

85.5% () work 5 or more days a week	2.5% () work 1-2 days a week
11.5% () work 3-4 days a week	0.5% () presently unemployed
13. What is your occupation? (CHECK ONE)

49.0% () professional-technical	5.8% () sales worker
11.0% () managerial	12.8% () secretarial-clerical-cashier
17.8% () blue collar	3.3% () other <u>(please specify)</u>
	0.3% STUDENT

14. Does your job require you to dress up? (CHECK ONE) No, Answer: 1.8%

49.29% () usually 14.59% () sometimes 34.59% () not usually

15. How many workers including yourself are in your household? 1.7

16. Please check the category which includes your approximate family income before taxes. *No Answer. 4.3-7.*

4.870() \$5,000 and under

10.82() \$15,001 - \$17,500

4.59% () \$5,001 - \$7,500

6.8% () \$17,501 - \$20,000

10.37() \$7,501 - \$10,000

16.3% () \$20,001 - \$25,000

7.89 () \$10,001 - \$12,500

19.82. () \$25,001 - \$50,000

10.87() \$12,501 - \$15,000

3878) Over \$50,000

$$\bar{x}: 21,275$$

In the space below we would welcome any other comments you would like to make. Enclose additional pages if you like.

We would like to express our sincere thanks to you for completing this questionnaire.

Is your work place located less than 3 miles from your home?

31.0%) Yes

69.0% No ()

If your answer is YES, please read below.

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO WORK USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrian ways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass medians. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to work, assuming the facility improvements described above are available to you on your next trip to work.

(You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to work using the facility improvements described on the previous page, even if you did not walk on your last trip to work.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No
1. Walking to work would be pleasant because I could enjoy the scenery and surroundings.	37.1%	38.7%	12.9%	8.1%	— ()	3.2
2. When walking, it would be convenient to stop and do errands on my way to and from work.	4.8%	27.4%	17.7%	42.1%	4.8%	3.2
3. I could pick up and go anytime I like when I walk to work.	9.7%	56.5%	9.7%	16.1%	4.8%	3.2
4. Walking to work would be tiring.	6.5%	25.8%	9.7%	48.3%	6.5%	3.2
5. Walking to work would be dangerous because of the heavy traffic.	3.2%	9.7%	8.1%	61.3%	12.9%	4.8
6. If I walked to work I would worry about being late.	4.8%	32.3%	11.3%	42.0%	4.8%	4.8
7. I could not rely on walking to work in rainy weather.	8.1%	58.0%	9.7%	11.3%	8.1%	4.8
8. I could easily carry my briefcase or other packages when I walk to work.	8.1%	35.5%	12.9%	30.6%	9.7%	3.2
9. It would be uncomfortable to walk to work because of rough or bumpy walking surfaces.	3.2%	4.8%	9.7%	59.8%	17.7%	4.8
10. I could get to work quickly when I walk.	8.1%	24.2%	19.4%	38.6%	6.5%	3.2
11. I would worry about being mugged or assaulted when I walk to work.	1.6%	32.3%	16.1%	40.3%	6.5%	3.2
12. I would worry about being injured in an accident if I walk to work.	— ()	8.1%	11.3%	64.5%	12.9%	3.2
13. It would be relaxing to walk to work.	21.0%	43.6%	17.7%	11.3%	3.2%	3.2
14. I would dislike walking to work because of the many delays at intersections.	— ()	9.7%	12.9%	66.1%	8.1%	3.2
15. Walking to work would be unsafe because of the lack of pathways that are separated from motorized traffic.	— ()	4.8%	16.1%	61.4%	14.5%	3.2
16. Walking to work would be dangerous because motorists are inconsiderate of pedestrians.	4.8%	17.7%	12.9%	48.5%	12.9%	3.2
17. When walking to work I would worry about perspiring or soiling my clothes.	1.6%	29.0%	9.7%	50.0%	6.5%	3.2
18. Walking to work would give healthful exercise.	50.1%	37.1%	3.2%	4.8%	1.6%	3.2

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and work place, rank the three remaining alternatives only.)

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next trip to work.

Ranked #1		Ranked #2	Ranked #3	Ranked #4	Answer
17.7%	() walk with improved facilities	21.0%	32.2%	21.0%	8.1%
11.3%	() bicycle	30.6%	32.3%	17.7%	8.1%
4.8%	() bus/transit	30.6%	11.3%	32.3%	21.0%
64.5%	() car (driver or passenger)	11.3%	16.1%	6.5%	1.6%

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$1.50 per gallon. (Please rank again.)

19.4%	() walk with improved facilities	27.4%	27.4%	17.7%	8.1%
19.4%	() bicycle	30.6%	25.8%	16.1%	8.1%
11.3%	() bus/transit	25.7%	21.0%	21.0%	21.0%
48.4%	() car (driver or passenger)	9.7%	17.7%	22.6%	1.6%

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

25.8%	() walk with improved facilities	30.6%	22.6%	11.3%	9.7%
25.8%	() bicycle	37.1%	12.9%	14.5%	9.7%
25.8%	() bus/transit	16.1%	25.8%	12.9%	19.4%
19.4%	() car (driver or passenger)	6.5%	29.0%	35.4%	9.7%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

53.2% = 9/10 trips	() walk with improved facilities	2.2
64.5% = 0/10 trips	() bicycle	1.3
64.5% = 0/10 trips	() bus/transit	1.1
(21.0% = 2/10 trips)	() car (driver or passenger)	5.4
35.5% = 10/10 trips	(10) TOTAL TRIPS	10.0

(Means)

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1.00 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

PLEASE TURN TO THE FOLLOWING PAGE.

YOU HAVE JUST READ AN ASSUMED FEE ON AUTO USAGE. IMAGINE THAT THIS SITUATION EXISTS FOR YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
a. I believe that a congestion fee of two dollars per day is desirable.	15.0%	18.0%	7.0%	26.5%	32.0%	1.5%
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	3.0%	4.0%	6.5%	38.0%	47.5%	1.0%

2. Please indicate your preference for each of the following transportation alternatives for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat this for each of the statements (a) through (d) below.
(If bus service is not available for your work trip, please rank the three remaining alternatives below.)

a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect. Please rank the following means of transportation for your next trip to work.

Ranked #1		Ranked #2	Ranked #3	Ranked #4	No Answer
6.5%	() walk	12.0%	29.0%	45.0%	7.5%
17.0%	() bicycle	31.5%	37.5%	7.0%	7.0%
31.5%	() bus or transit	32.5%	10.0%	9.0%	17.0%
42.0%	() car (driver or passenger)	19.0%	16.5%	17.5%	4.0%

b. Assume that instead of \$2.00, the congestion fee increased to \$4.00 per day. (Please rank again.)

7.5%	() walk	15.0%	30.0%	40.5%	7.5%
19.0%	() bicycle	35.5%	33.5%	5.0%	7.0%
37.5%	() bus or transit	27.5%	10.5%	8.0%	16.5%
31.0%	() car (driver or passenger)	16.5%	18.5%	25.5%	5.5%

c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

7.5%	() walk	15.5%	29.0%	40.5%	7.5%
20.5%	() bicycle	33.0%	34.0%	5.5%	7.0%
37.5%	() bus or transit	26.5%	12.0%	7.0%	17.0%
31.5%	() car (driver or passenger)	19.5%	17.5%	26.0%	5.5%

d. Assume that the congestion fee of \$2.00 per day was in effect, and assume further that your employer allowed you to arrive before 7:00 a.m. and leave before 4:00 p.m., or to arrive after 9:00 a.m. and leave after 6:00 p.m. (Please rank.)

6.5%	() walk	6.5%	32.5%	43.0%	8.5%
10.5%	() bicycle	32.5%	41.0%	8.5%	7.5%
14.5%	() bus or transit	43.0%	9.5%	14.0%	19.0%
65.5%	() car (driver or passenger)	12.0%	9.5%	9.5%	3.5%



City of Huntington Beach

P.O. BOX 190

CALIFORNIA 92648

OFFICE OF THE MAYOR

October 15, 1978

Dear Resident of Huntington Beach:

The City of Huntington Beach is cooperating in a U.S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your shopping and personal business trips only. We are interested in your opinion of the transportation services available to you for shopping and personal business trips. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800--328-2933.

Sincerely,

Ron Shenkman
Mayor

RS:cd
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME FOR THE PURPOSE OF SHOPPING OR PERSONAL BUSINESS. PLEASE EXCLUDE ALL MAJOR GROCERY SHOPPING TRIPS.

1. What is the nearest intersection or street address of the place of your most recent shopping or personal business trip from home?

(nearest intersection or street address)

(city)

2. A list of specific shopping and personal business trip purposes is given below. Please check the one trip purpose that best describes your most recent shopping or personal business trip from home (exclude major grocery shopping trips). (CHECK ONE ONLY) *No Answer - 0.2%*

26.7% () Minor grocery shopping (one bag or less) 7.1% () eat meal 2.6% () other professional

17.5% () clothing/shoes 3.2% () post office 11.0% () bank

8.9% () drugs/bookstore 1.9% () library/museum 2.2% () laundry/dry cleaner/shoe repair

5.2% () hardware/florist/liquor 5.4% () medical/dental 2.8% () barber/beauty shop

16.3% () other _____
(please specify)

3. Other than the above stop, did you make any additional stops on the way to and from your shopping/ personal business destination? (CHECK ONE) *No Answer 1.0%*

46.0% () none (If you answered NONE, go to question 5.)

29.0% () one

14.5% () two

9.5% () three or more

4. Did any of the additional stops between your home and your primary shopping/personal business destination require you to travel more than one mile out of the way?

22.0% () Yes

31.0% () No

NO ADDTL STOPS/NO ANSWER: 47.0 %

5. Approximately how far was it directly from your home to your primary shopping/personal business destination (one way)? *No Answer 0.3%*

8.3% () 2 blocks (1/4 mile or less)

16.8% () 2 to 4 miles

18.3% () 3 to 6 blocks (1/4 to 1/2 mile)

3.5% () 4 to 6 miles

22.5% () 1/2 to 1 mile

1.8% () 6 to 10 miles

23.7% () 1 to 2 miles

4.8% () over 10 miles

6. How many separate parcels, bags or packages were you carrying? (CHECK ONE)

16.5% () none 38.4% () one 23.8% () two 21.3% () three or more

7. How many persons (other than yourself) were with you on this shopping or personal business trip?

total: _____ (number)

Children 12 years of age and under _____ (number)

8. Where is this place where you went shopping or on personal business located? *NO ANSWER 2.7%*

19.3% () central city

79.0% () suburban

9. Specify the type of area where you went on your shopping/personal business trip. (CHECK ONE)

NO ANSWER; 3.5%

0.3% () central business district
(downtown metropolitan area)

18.5% () regional shopping center

70.3% () neighborhood business district
or shopping center

4.6% () office park/professional building

0.8% () college campus

3.0% () other

(please specify)

10. What was the date of this most recent trip? _____

(month/day)

11. At approximately what time of day did you make this trip to your shopping/personal business destination?

6.3% () before ⁹ a.m.

53.4% () ^{9am} ~~10 a.m.~~ to 2 p.m.

() ~~7 a.m. to 8 a.m.~~

24.5% () 2 p.m. to 6 p.m.

() ~~8 a.m. to 9 a.m.~~

11.8% () after 6 p.m.

() ~~9 a.m. to 10 a.m.~~

12. How did you make the trip to this shopping/personal business destination? (CHECK ONE)

5.5% () walked all the way

0.5% () motorcycle

79.3% () drove a car

2.0% () bicycle

10.3% () passenger in a car

1.3% () moped (motorized bicycle)

0.8% () bus

() taxi

() train, subway

0.3% () other

(please specify)

12a. If you used a bus or transit, how did you get to your bus or transit stop?

() bicycle

() drove and parked

() taxi

() passenger in a car

0.8% () walk

() other

(please specify)

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR MOST RECENT SHOPPING OR PERSONAL BUSINESS TRIP WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent shopping or personal business trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For the above trip, we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never used it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to my shopping or personal business destination by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending upon how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree, you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under agree, indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your shopping or personal business trip varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful ratings of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF CAR

When using a car, are you usually a:

96.5% () car driver

3.5% () car passenger

If you are usually a car driver, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about driving on this trip.

If you are usually a car passenger, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about going to this destination as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree
1. Traveling by car to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	96.0%	27.0%	43.4%	21.5%	4.3%
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by car.	30.0%	60.4%	33%	4.8%	1.0%
3. I can pick up and go anytime I like when I travel by car on shopping or on personal business trips.	38.3%	53.4%	32%	3.5%	0.5%
4. Traveling by car to this shopping/personal business destination is tiring.	0.8%	30%	133%	56.8%	25.3%
5. Traveling by car to my shopping/personal business destination is dangerous because of the heavy traffic.	2.3%	15.5%	24.0%	44.4%	8.3%
6. When on a shopping/personal business trip with children, it is inconvenient to go by car.	75%	15.0%	12.8%	41.4%	21.3%
7. I cannot rely on traveling by car to this destination in rainy weather.	10%	2.3%	33%	62.6%	30.3%
8. I can easily carry packages when I travel by car while I am on a shopping/personal business trip.	42.8%	51.6%	2.0%	1.3%	1.0%
9. It is uncomfortable to travel by car to this shopping/personal business destination because of rough or bumpy road surfaces.	2.5%	2.0%	6.0%	60.0%	28.5%
10. I can get to my shopping/personal business destination quickly when I travel by car.	37.5%	58.4%	1.8%	1.3%	0.5%
11. I worry about being mugged or assaulted when I travel by car to my shopping/personal business destination.	2.3%	2.5%	9.5%	54.1%	32.2%
12. I worry about being injured in an accident when I travel by car to my shopping/personal business destination.	1.3%	12.3%	19.5%	49.9%	16.5%
13. It is relaxing to travel by car to my shopping/personal business destination.	10.5%	42.7%	24.5%	18.3%	1.5%
14. I dislike traveling by car to this shopping/personal business destination because of the many delays at intersections.	15%	7.8%	23.3%	55.9%	11.0%
15. Parking the car at this destination is expensive.	0.5%	1.3%	4.0%	48.7%	45.0%
16. After parking the car, I must walk a long distance when I go to this shopping/personal business destination.	10%	3.3%	7.0%	60.2%	28.0%
17. I worry about the car being stolen or vandalized at this destination.	10%	78%	15.0%	56.2%	19.5%
18. It is inexpensive to buy and operate a car.	43%	115%	10.3%	42.0%	32.0%
19. Parking the car is no trouble when on this shopping/personal business trip.	19.5%	56.6%	11.3%	9.8%	1.5%

YOUR RATING OF BICYCLE

Was your most recent shopping or personal business destination located less than 4 miles from your home?

25.0% () Yes

15.0% () No

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination, even if you don't own a bicycle or didn't ride a bicycle on your last trip to this destination.

If your answer is NO, please go to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Bicycling to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	6.2%	23.2%	30.6%	25.3%	14.7%	0.9%
2. When shopping or on a personal business trip, it is convenient to stop and do errands, when riding a bicycle.	2.1%	27.0%	14.4%	42.5%	11.2%	1.2%
3. I can pick up and go anytime I like when I ride a bicycle to go shopping or on personal business trips.	4.4%	47.1%	12.9%	25.6%	8.8%	1.2%
4. Riding a bicycle to this shopping/personal business destination is tiring.	7.1%	28.2%	20.9%	37.3%	5.0%	1.5%
5. Riding a bicycle to my shopping/personal business destination is dangerous because of the heavy traffic.	21.5%	40.9%	13.5%	19.1%	3.8%	1.2%
6. When on a shopping/personal business trip with children, it is inconvenient to ride the bicycle.	40.0%	34.1%	7.6%	10.0%	7.1%	1.2%
7. I cannot rely on riding a bicycle to this destination in rainy weather.	27.1%	47.2%	5.6%	6.8%	1.8%	1.5%
8. I can easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	4.1%	8.2%	8.2%	47.4%	31.2%	0.9%
9. It is uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	2.6%	7.1%	22.6%	55.3%	11.2%	1.2%
10. I can get to my shopping/personal business destination quickly, when I ride a bicycle.	4.1%	35.9%	18.5%	33.2%	7.1%	1.2%
11. I worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	2.1%	8.8%	21.2%	53.2%	12.5%	1.2%
12. I worry about being injured in an accident when I ride a bicycle to my shopping/personal business destination.	16.2%	37.5%	16.8%	21.5%	7.1%	0.9%
13. It is relaxing to ride by bicycle to my shopping/personal business destination.	5.9%	29.4%	26.2%	29.4%	8.2%	0.9%
14. I dislike traveling by bicycle to this shopping/personal bus. destination because of many delays at intersections.	2.9%	17.6%	29.4%	43.6%	5.6%	0.9%
15. Bicycling to this shopping/personal bus. destination is unsafe due to lack of bike paths separated from motorized traffic.	9.4%	28.8%	18.2%	35.1%	7.6%	0.9%
16. Going by bicycle to this destination is dangerous because motorists are inconsiderate of bicyclists.	15.0%	34.4%	25.0%	21.2%	3.5%	0.9%
17. When bicycling to this shopping/personal business destination, I worry about perspiring or soiling my clothes.	3.2%	18.5%	24.7%	43.0%	9.4%	1.2%
18. Riding a bicycle gives healthful exercise.	45.3%	48.2%	4.4%	0.6%	0.9%	0.6%
19. Parking, locking and unlocking my bicycle at this destination is no trouble.	8.8%	43.0%	17.6%	23.8%	5.9%	0.9%
20. I worry about my bicycle being stolen at this shopping/personal business destination.	13.2%	38.8%	21.2%	21.5%	4.1%	1.2%
21. It is inexpensive to buy and operate a bicycle.	15.9%	52.9%	14.4%	14.1%	2.1%	0.6%

NO ANSWER

YOUR RATING OF BUS (or transit)

Is bus service available between your home and this shopping or personal business destination?

51.7% () Yes

48.3% () No

If your answer is YES, please rate the statements below concerning how you would feel about going to this destination by bus even if you didn't choose bus on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree
1. Going to this destination by bus is pleasant because I can enjoy the scenery and surroundings.	3.9%	24.2%	37.5%	24.2%	9.2%
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by bus.	1.4%	5.8%	12.1%	52.4%	21.3%
3. I must schedule my trips in advance when I travel by bus to go shopping or on personal business trips.	19.8%	59.0%	11.1%	6.3%	2.4%
4. Traveling by bus to this shopping/personal business destination is tiring.	8.7%	21.3%	32.4%	32.8%	4.3%
5. Traveling by bus to my shopping/personal business destination is dangerous because of the heavy traffic.	()	4.8%	21.7%	59.1%	13.0%
6. When on a shopping/personal business trip with children, it is inconvenient to take the bus.	14.0%	34.3%	23.2%	24.2%	1.9%
7. I cannot rely on taking a bus to this destination in rainy weather.	11.6%	31.4%	21.3%	31.4%	2.9%
8. I can easily carry packages when I travel by bus while I am on a shopping/personal business trip.	3.4%	29.0%	19.3%	35.2%	12.1%
9. It is uncomfortable to travel to this destination by bus because of rough or bumpy road surfaces.	0.5%	2.9%	24.2%	56.9%	14.5%
10. I can get to my shopping/personal business destination quickly when I travel by bus.	2.4%	14.5%	22.2%	42.5%	17.4%
11. I worry about being mugged or assaulted when I travel by bus to my shopping/personal business destination.	1.4%	6.8%	28.5%	46.8%	15.5%
12. I worry about being injured in an accident when I travel by bus to my shopping/personal business destination.	1.0%	3.9%	22.2%	56.5%	16.4%
13. It is relaxing to travel by bus to my shopping/personal business destination.	3.9%	30.4%	32.8%	25.6%	5.8%
14. I dislike traveling by bus to this shopping/personal business destination because of the many delays at intersections.	5.8%	20.3%	34.3%	36.7%	1.7%
15. I must walk a long distance to get to and from the bus when I go to this shopping/personal business destination.	7.2%	26.6%	21.7%	41.1%	2.4%
16. There is generally a long wait involved when I travel by bus to this shopping/personal business destination.	13.0%	42.6%	28.5%	13.0%	1.9%
17. When traveling by bus to this shopping/personal business destination I worry about perspiring or soiling my clothes.	0.5%	4.8%	26.1%	54.6%	13.0%
18. It is inexpensive to travel by bus to this shopping/personal business location.	6.3%	53.1%	22.7%	11.2%	4.3%

YOUR RATING OF WALK

Was your most recent shopping or personal business destination located less than 2 miles from your home?

70.7% () Yes

29.8% () No

If your answer is YES, please rate the statements below concerning how you would feel about walking to this destination even if you did not walk there on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	Answer
1. Walking to this destination is pleasant because I can enjoy the scenery and surroundings.	8.5%	36.0%	25.3%	21.7%	7.8%	0.7%
2. When shopping or on a personal business trip, it is convenient to stop and do errands when walking.	6.8%	36.6%	14.6%	32.0%	9.6%	0.4%
3. I can pick up and go anytime I like when I walk to go shopping or on personal business trips.	7.5%	50.8%	13.9%	20.3%	6.4%	1.1%
4. Walking to this shopping/personal business destination is tiring.	10.0%	33.1%	14.9%	36.3%	5.7%	-
5. Walking to my shopping/personal business destination is dangerous because of the heavy traffic.	6.0%	19.2%	16.7%	48.8%	8.9%	0.4%
6. When on a shopping/personal business trip with children, it is inconvenient to walk.	19.6%	34.1%	17.8%	22.1%	3.6%	1.8%
7. I cannot rely on walking to this destination in rainy weather.	26.0%	49.1%	11.4%	11.4%	1.4%	0.7%
8. I can easily carry packages when I walk while I am on a shopping/personal business trip.	2.8%	22.8%	10.3%	44.5%	19.2%	0.4%
9. It is uncomfortable to walk to this destination because of rough and bumpy walking surfaces.	1.4%	5.3%	13.9%	63.7%	15.3%	0.4%
10. I can get to my shopping/personal business destination quickly when I walk.	2.5%	23.1%	16.4%	41.6%	16.4%	-
11. I worry about being mugged or assaulted when I walk to my shopping/personal business destination.	3.9%	9.3%	16.7%	53.4%	16.7%	-
12. I worry about being injured in an accident when I walk to my shopping/personal business destination.	2.8%	9.6%	15.3%	59.5%	12.8%	-
13. It is relaxing to walk to my shopping/personal business destination.	6.0%	41.3%	20.3%	26.3%	5.7%	0.4%
14. I dislike walking to this shopping/personal business destination because of the many delays at intersections.	3.9%	11.7%	22.1%	52.3%	10.0%	-
15. Walking to this shopping/personal bus. destination is unsafe due to lack of pathways separated from motorized traffic.	2.5%	7.1%	10.7%	63.0%	16.7%	-
16. Walking to this shopping/personal bus. destination is dangerous because motorists are inconsiderate of pedestrians.	5.7%	19.6%	46.9%	8.2%	0.4%	-
17. When walking to this shopping/personal bus. destination, I worry about perspiring or soiling my clothes.	3.6%	12.1%	15.7%	56.5%	11.7%	0.4%
18. Walking to this shopping/personal business destination gives healthful exercise.	37.4%	52.2%	6.1%	1.8%	1.4%	0.4%

WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL FOR SHOPPING/
PERSONAL BUSINESS TRIPS.

1. Imagine that only BUS, WALK BICYCLE, and CAR (driver or passenger) were available for your most recent shopping/personal business trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. (If bus service was not available for your shopping/personal business trip, please rank the three remaining alternatives.)

		# 2	# 3	# 4	NO ANSWER
Franked					
5.8%	() bus	22.5%	12.8%	31.0%	32.9%
4.8%	() walk	23.3%	47.1%	20.3%	4.5%
3.8%	() bicycle	45.2%	31.5%	14.5%	5.0%
40.0%	() car (driver or passenger)	5.0%	3.5%	5.5%	1.0%

2. We would like to know how often you use each of the following means of travel for shopping/personal business trips from home. Place an X under your best estimate of the number of days you have used each means of travel during the last 30 days.

	Did not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
bus	89.4% ()	9.5% ()	- ()	- ()	- ()	1.3% ()	4.8%
walk	42.6% ()	37.3% ()	7.3% ()	3.3% ()	1.0% ()	4.0% ()	4.5%
drive a car	6.8% ()	9.3% ()	6.8% ()	10.8% ()	12.0% ()	52.5% ()	1.8%
passenger in car	24.3% ()	35.6% ()	15.0% ()	5.5% ()	4.8% ()	6.8% ()	8.0%
bicycle	65.6% ()	16.3% ()	4.5% ()	2.8% ()	1.5% ()	3.0% ()	6.3%
other	- ()	1.3% ()	1.5% ()	- ()	.3% ()	.8% ()	97.1%
	(specify)						

3. Assume that on your next shopping/personal business trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below. (If bus service is not available for your shopping/personal business trip, please rank the three remaining alternatives.)

	(a) \$1.00 Per Gallon	(b) \$1.50 Per Gallon	(c) \$3.00 Per Gallon	(d) \$4.00 Or More Per Gallon
Franked				
5.8%, 25.2%	walk () 14.3%, 24.5%	walk () 20.5%, 32.2%	walk () 21.8%, 36.1%	walk ()
12.0%, 34.1%	bicycle () 21.3%, 30.6%	bicycle () 24.9%, 29.0%	bicycle () 36.4%, 29.8%	bicycle ()
5.9%, 25.0%	bus () 12.8%, 20.0%	bus () 22.3%, 13.3%	bus () 22.8%, 12.5%	bus ()
13.6%, 7.9%	car () 15.7%, 16.5%	car () 21.3%, 17.3%	car () 18.0%, 12.3%	car ()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU.
PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU SHOP OR DO
PERSONAL BUSINESS BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 4 MILES OR LESS.

1. If you were to ride your bicycle to your shopping/personal business destination, what is your best estimate of the time you would spend doing the following?

getting the bicycle to the street	<u>2.3</u>	(minutes)
riding the bicycle	<u>13.0</u>	(minutes)
parking and locking up the bicycle	<u>2.8</u>	(minutes)
walking from bicycle to destination	<u>2.0</u>	(minutes)
TOTAL TIME FROM HOME TO DESTINATION	<u>20.3</u>	(minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to your shopping/personal business destination.

1.0% () bicycle path (off the street) }
 61.4% () bicycle lane (on the street) } 1.3% both
 14.5% () neither
 11.8% () don't know

10% of trips are more than 4 miles

3. What portion of your total trip from home to your shopping/personal business destination is served by bicycle paths or bicycle lanes?

12.5% () none
 8.5% () less than 1/4 the distance
 11.8% () 1/4 to 1/2 the distance
 13.8% () 1/2 to 3/4 the distance
 27.6% () more than 3/4 of the distance
 15.8% () don't know

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 2 MILES OR LESS.

4. If you were to walk to shopping/personal business, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at shopping/personal business destination?

22.2 (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to your shopping/personal business destination?

76.1% () all or almost all the way
 6.5 () part of the way
 0.3 () there are none
 1.3 () don't know

15.3% of trips are more than 2 miles
 151

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop 7.2 (minutes)

waiting for the bus 13.3 (minutes)

riding on the bus 11.1 (minutes)

walking from bus to destination 4.8 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 35.3 (minutes)

(Averages)

7. Is it necessary to change buses to travel from your home to your shopping/personal business destination?

14.0 (%) Yes

41.9 (%) No

5.8 Don't know

Bus service not available: 38.3 %

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to your shopping/personal business destination?

9.2 times out of ten (mean)

9. What is the one-way bus fare on your trip from home to your shopping/personal business destination?

0.29 cents (mean) () don't know

10. If you were to go by car to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

walking to the car 1.2 (minutes)

driving or riding 6.3 (minutes)

parking the car 2.0 (minutes)

walking from car to destination 2.0 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 11.8 (minutes)

(Mean values)

11. What is the parking cost on your trip from home to your shopping/personal business destination?

(CHECK ONE AND SPECIFY THE COST.)

() no charge

() daily charge 0.53 (dollars)

() weekly charge - (dollars)

() monthly charge - (dollars)

Mean

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

61.9% () Yes

37.8% () No (IF "NO", GO TO NEXT PAGE.)

0.3% DON'T KNOW

2. Did you ride a bicycle during the last month?

40.5% () Yes

(38% did not ride in past year)

21.5% () No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h" below) during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
a. To work	37.3% ()	0.5% ()	0.5% ()	0.3% ()	0.3% ()	1.0% ()	0.8%
b. To school	33.8% ()	1.0% ()	1.3% ()	0.8% ()	0.8% ()	2.3% ()	0.8%
c. For personal business	19.8% ()	12.5% ()	3.5% ()	1.5% ()	1.8% ()	1.3% ()	0.3%
d. To visit friends	21.0% ()	11.8% ()	2.5% ()	1.3% ()	1.5% ()	2.3% ()	0.3%
e. To go shopping	22.3% ()	12.3% ()	2.5% ()	1.3% ()	1.0% ()	1.0% ()	0.3%
f. To a recreational activity	19.0% ()	12.0% ()	2.3% ()	2.0% ()	2.3% ()	2.5% ()	0.5%
g. Neighborhood riding	5.0 ()	20.8 ()	5.5 ()	25 ()	2.3 ()	4.5 ()	-
h. Long distance riding (over 2 hours)	33.0% ()	3.8% ()	0.8% ()	- ()	0.8% ()	1.5% ()	0.8%

(59.3% did not bike in last month)

Is your selected shopping or personal business destination located less than 4 miles away from your home?

86.5% () Yes

13.5% () No

If your answer is YES, please read below.

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right-hand side of the road marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for better riding. In addition, high-intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high activity areas, these consist of enclosed storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made freely available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to your shopping or personal business destination assuming the bicycle facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination using the facility improvements described on the previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Bicycling to this shopping/personal bus. destination would be pleasant because I could enjoy the scenery and surroundings.	10.4%	39.9%	29.5%	13.9%	4.6%	1.7%
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when riding a bicycle	5.8%	39.3%	16.2%	28.9%	7.5%	2.3%
3. I could pick up and go anytime I like when I ride a bicycle on shopping or on personal business trips.	7.5%	57.2%	11.0%	16.8%	5.8%	1.7%
4. Riding a bicycle to this shopping/personal business destination would be tiring.	5.9%	24.3%	20.2%	42.2%	5.2%	2.3%
5. Riding a bicycle to my shopping/personal business destination would be dangerous because of the heavy traffic.	6.9%	19.1%	12.1%	50.7%	7.5%	1.7%
6. When on my shopping/personal business trip with children, I would find it convenient to ride the bicycle.	16.4%	15.0%	12.7%	43.9%	19.7%	2.3%
7. I could not rely on riding a bicycle in rainy weather.	23.1%	59.6%	5.8%	6.9%	1.7%	2.9%
8. I could easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	4.6%	12.7%	11.0%	51.5%	18.5%	1.7%
9. It would be uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	2.3%	3.5%	12.9%	63.6%	11.0%	1.7%
10. I could get to my shopping/personal business destination quickly when I ride a bicycle.	4.0%	47.5%	17.3%	26.0%	2.9%	2.3%
11. I would worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	2.3%	6.9%	19.7%	59.0%	9.8%	2.3%
12. I would worry about being injured in an accident when I ride a bicycle to my shopping/personal bus. destination.	5.2%	22.5%	13.3%	48.0%	8.7%	2.3%
13. It would be relaxing to ride by bicycle to my shopping/personal business destination.	5.2%	43.4%	22.5%	21.4%	5.8%	1.7%
14. I would dislike bicycling to this shopping/personal bus. destination because of many delays at intersections.	1.7%	14.5%	23.7%	53.8%	4.6%	1.7%
15. Bicycling to this shopping/personal bus. destination would be unsafe due to lack of bike paths separated from motor traffic.	3.5%	12.1%	9.8%	56.1%	16.2%	2.3%
16. Bicycling to this shopping/personal business destination would be dangerous because motorists are inconsiderate of bikers.	5.8%	19.7%	18.5%	46.2%	8.1%	1.7%
17. When bicycling to this destination, I would worry about perspiring or soiling my clothes.	1.7%	16.2%	19.7%	53.2%	7.5%	1.7%
18. Riding a bicycle would give healthful exercise.	38.7%	53.8%	4.0%	0.6%	1.2%	1.7%
19. Parking, locking and unlocking my bicycle would be no trouble.	15.0%	62.5%	11.0%	9.2%	0.6%	1.7%
20. I would worry about my bicycle being stolen at this shopping/personal business destination.	7.5%	16.8%	12.7%	52.6%	8.7%	1.7%
21. It would be inexpensive to buy and operate a bicycle.	20.2%	54.4%	11.6%	10.4%	1.7%	1.7%

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Please repeat the process for each statement (a) through (c) below. (If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)

Ranked
#1

		#2	#3	#4	NO ANSWER
9.8%	() bicycle with improved facilities	51.5%	19.7%	12.1%	6.9%
4.6%	() walk	17.9%	46.8%	24.9%	5.8%
0.6%	() bus/transit	16.2%	22.0%	30.1%	31.1%
33.3%	() car (driver or passenger)	8.1%	4.0%	1.7%	2.9%

- b. Now assume the same condition as (a) above, except that the price of gasoline has increased to \$1.50 per gallon (please rank again).

33.5%	() bicycle with improved facilities	30.6%	19.7%	10.4%	5.8%
9.8%	() walk	25.4%	36.5%	22.5%	5.8%
5.8%	() bus/transit	21.4%	17.9%	25.4%	29.5%
49.1%	() car (driver or passenger)	16.2%	19.1%	11.8%	4.6%

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon (please rank again).

53.2%	() bicycle with improved facilities	22.0%	10.4%	9.8%	4.6%
12.7%	() walk	39.3%	27.7%	14.5%	5.8%
16.2%	() bus/transit	16.2%	16.8%	19.7%	31.1%
15.6%	() car (driver or passenger)	16.2%	38.1%	24.9%	5.2%

2. If only the alternatives listed below were available for your next 10 shopping or personal business trips, how many of the 10 trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

52.1% = 5/10 trips 1.7 () bicycle with improved facilities
 57.2% = 6/10 trips 1.1 () walk
 79.2% = 8/10 trips 0.4 () bus/transit
 7.5% = 1/10 trips 6.8 () car (driver or passenger) 40% = 4/10 trips
 (10) TOTAL TRIPS

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion, and costly street and highway expenditures. It has been suggested that in order to reduce these problems, people must live nearer to their places of employment, shopping, school, and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six-block (1/2 mile) distance and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to all shopping and personal business destinations without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available; and there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS, or CAR for your shopping or personal business trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statement:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
I would like to live in this type of community.	25.5%	42.0%	17.0%	4.0%	6.0%	5.5%

2. Please indicate your preference for each of the following transportation alternatives on your shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. (Please repeat the process for each statement (a) through (d) below.)

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next shopping or personal business trip, and assume further that your trip is approximately 1/2 mile (6 blocks) in length. (Please rank the following means of transportation.)

Rank 1 #1, #2						
122.0%	34.5%	() walk	5.0%	13.5%	() bus or transit	
38.0%	24.5%	() bicycle	31.5%	16.5%	() car (driver or passenger)	

- b. Now suppose that in addition to the conditions described in (a) above the price of gasoline increased to \$1.50 per gallon. (Please rank the following means of transportation.)

24.5%	38.0%	() walk	8.5%	14.0%	() bus or transit
44.0%	22.5%	() bicycle	18.5%	13.5%	() car (driver or passenger)

- c. Assume the conditions described in (a) above and assume that in addition the speed limit was reduced to 15 m.p.h. in the community. (Please rank the following means of transportation.)

25.5%	39.0%	() walk	6.0%	14.0%	() bus or transit
44.0%	23.5%	() bicycle	20.5%	12.0%	() car (driver or passenger)

- d. Assume again conditions described in (a) above but this time assume no parking was available at your shopping or personal business destination. (Please rank the following means of transportation.)

36.5%	34.0%	() walk	12.0%	18.5%	() bus or transit
39.5%	28.5%	() bicycle	7.5%	4.5%	() car (driver or passenger)

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. AS YOU RECALL, YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 40.4 ^{Mean}
(age)
2. What is your sex? 48.0 % 52.0
() Male () Female
3. How many adults (18 or over), including yourself, are there in your household? 2.3 ^{Mean}
4. How many minors (under 18) are there in your household? 1.3 ^{Mean}
5. Do you have a valid driver's license? 93.5 % 6.0
() Yes () No ^{NO ANS. = 0.5 %}
6. How many licensed drivers (including yourself) are there in your household? 2.4 ^{mean}
7. How many automobiles are there in your household? 2.3 ^{mean}
63.4 % 36.3
8. Do you own a bicycle? () Yes () No
9. How many bicycles are there in your household? 2.2 ^{mean}
10. What type of structure do you live in?

<u>88.4</u> () single family	<u>—</u> () low-rise apartment (4 to 8 stories)
<u>1.0</u> () duplex	<u>—</u> () high-rise apartment (more than 8 stories)
<u>1.3</u> () townhouse	<u>20.0</u> () other <u> </u> <small>(please specify)</small>
<u>3.8</u> () walk-up apartment (3 stories or less)	<u>0.5</u> NO ANS.
11. What is your educational background? (CHECK ONE)

<u>1.5</u> () completed elementary school	<u>17.8</u> () college or technical school graduate
<u>11.0</u> () some high school	<u>4.0</u> () some graduate school
<u>14.3</u> () high school graduate	<u>10.0</u> () completed graduate degree(s)
<u>35.6</u> () some college or technical school	<u>0.8</u> NO ANS.
12. Please indicate your work group below:

<u>32.5</u> (% work 5 or more days a week	<u>5.3</u> () work 1-2 days a week
<u>5.0</u> () work 3-4 days a week	<u>53.9</u> () presently not employed
	<u>3.3</u> NO ANS

13. What is your occupation? (CHECK ONE)
- | | | |
|---------------------------------|--------------------------------------|------------------|
| 26.3 (% professional-technical | 4.5 () student | NO ANSW. = 6.3 % |
| 4.8 () managerial | 3.0 () sales worker | |
| 8.5 () blue collar | 5.3 () secretarial-clerical-cashier | |
| 27.0 () housewife | 4.3 () other _____ | |
| | 10.0 not employed (please specify) | |
14. How many workers are in your household? 1.6 (mean)

4.5 () student

NO ANS. = 6.3 %

4.8 () managerial

3.0 () sales worker

8.5() blue collar

5.3 () secretarial-clerical-cashier

27.06 > housewife

4.3 () other

10.0 not employed (please specify)

14. How many workers are in your household? 1.6 (mean)

15. Please check the category which includes your approximate family income before taxes.
- | | |
|---|---|
| 1.5 (<input checked="" type="checkbox"/>) \$5,000 and under | 6.3 (<input type="checkbox"/>) \$15,001 - \$17,500 |
| 2.0 (<input type="checkbox"/>) \$5,001 - \$7,500 | 12.0 (<input type="checkbox"/>) \$17,501 - \$20,000 |
| 4.3 (<input type="checkbox"/>) \$7,501 - \$10,000 | 17.8 (<input type="checkbox"/>) \$20,001 - \$25,000 |
| 5.0 (<input type="checkbox"/>) \$10,001 - \$12,500 | 31.0 (<input type="checkbox"/>) \$25,001 - \$50,000 |
| 6.8 (<input type="checkbox"/>) \$12,501 - \$15,000 | 2.3 (<input type="checkbox"/>) Over \$50,000 |
| | 11.0 NO ANS. |
- MEAN: \$ 25,220

1.5 (% \$5,000 and under

6.3 () \$15,001 - \$17,500

20 () \$5,001 - \$7,500

12.0 () \$17,501 - \$20,000

4.3 () \$7,501 - \$10,000

17.8 () \$20,001 - \$25,000

MEAN: \$ 25,220

5.0 () \$10,001 - \$12,500

31.0 () \$25,001 - \$50,000

6.8 () \$12,501 - \$15,000

2,3() Over \$50,000

11.0 NO ANS.

In the space below we would welcome any other comments you would like to make. Enclose additional pages if you like.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper. A small dark speck is visible near the bottom left corner.

We would like to express our sincere thanks to you for completing this questionnaire.

Is your shopping or personal business destination located less than 2 miles from your home?

73.5% ☐ Yes

26.5% ☐ No

If your answer is YES, please read below.

If your answer is NO, please go to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrianways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass median. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High-intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches, and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to your shopping or personal business destination, assuming the facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to your shopping or personal business destination using the facility improvements described on the previous page, even if you did not walk there on your last trip.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Walking to a shopping/personal business destination would be pleasant because I could enjoy the scenery and surroundings.	77% () 53.8%	17.0% () 6.8%	2.7% ()			-
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when walking.	6.8% () 38.1%	23.1% () 25.4%	5.4% ()			0.7%
3. I could pick up and go anytime I like when I walk to go shopping or on personal business trips.	6.1% () 51.0%	24.5% () 13.6%	4.8% ()			-
4. Walking to this shopping/personal business destination would be tiring.	6.1% () 27.4%	17.7% () 45.6%	2.7% ()			-
5. Walking to my shopping/personal business destination would be dangerous because of the heavy traffic.	3.4% () 8.8%	15.0% () 63.3%	9.5% ()			-
6. When on a shopping/personal business trip with children, it would be inconvenient to walk.	10.2% () 29.9%	21.1% () 33.3%	4.8% ()			0.7%
7. I could not rely on walking to this destination in rainy weather.	15.6% () 52.4%	9.5% () 21.1%	1.4% ()			-
8. I could easily carry packages when I walk while I am on a shopping/personal business trip.	1.4% () 19.7%	17.0% () 48.3%	12.2% ()			1.4%
9. It would be uncomfortable to walk to this destination because of rough or bumpy walking surfaces.	0.7% () 2.7%	11.6% () 72.1%	12.9% ()			-
10. I could get to my shopping/personal business destination quickly when I walk.	2.7% () 25.9%	20.4% () 41.4%	8.2% ()			1.4%
11. I would worry about being mugged or assaulted when I walk to my shopping/personal business destination.	2.7% () 7.5%	17.7% () 61.2%	11.9% ()			-
12. I would worry about being injured in an accident when I walk to my shopping/personal business destination.	2.0% () 4.1%	17.7% () 66.7%	9.5% ()			-
13. It would be relaxing to walk to my shopping/personal business destination.	7.5% () 53.7%	19.7% () 15.0%	4.1% ()			-
14. I would dislike walking to this destination because of the many delays at intersections.	2.0% () 4.8%	19.0% () 66.7%	7.5% ()			-
15. Walking to my destination would be unsafe because of the lack of pathways that are separated from motorized traffic.	0.7% () 4.1%	11.6% () 73.4%	10.2% ()			-
16. Walking to a shopping/personal business destination would be dangerous because motorists are inconsiderate of pedestrians.	3.4% () 12.2%	15.6% () 62.7%	6.1% ()			-
17. When walking to this destination I would worry about perspiring or soiling my clothes.	2.7% () 10.9%	18.4% () 57.8%	10.2% ()			-
18. Walking would give healthful exercise.	37.4% () 55.1%	5.4% () 1.4%	6.7% ()			-

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat the process for each statement (a) through (c) below. *(If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)*

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next shopping or personal business trip.

Rankings #1		#2	#3	#4	NO ANSWER
14.3%	() walk with improved facilities	34.7%	38.8%	9.5%	2.7%
6.8%	() bicycle	39.5%	37.4%	12.9%	3.4%
6.7%	() bus/transit	14.3%	10.2%	46.2%	28.6%
76.9%	() car (driver or passenger)	8.2%	10.2%	2.0%	2.7%

- b. Now assume the same condition (a) above except that the price of gasoline has increased to \$1.50 per gallon. *(Please rank again.)*

25.2%	() walk with improved facilities	36.0%	29.3%	7.5%	2.0%
25.9%	() bicycle	32.6%	28.6%	9.5%	3.4%
6.8%	() bus/transit	14.3%	13.6%	36.7%	28.6%
41.5%	() car (driver or passenger)	13.6%	25.2%	17.0%	2.7%

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. *(Please rank.)*

35.4%	() walk with improved facilities	42.2%	15.6%	5.4%	1.4%
36.1%	() bicycle	33.3%	21.1%	6.1%	3.4%
6.1%	() bus/transit	12.9%	26.5%	25.9%	28.6%
21.8%	() car (driver or passenger)	1.2%	33.3%	33.3%	3.4%

2. If only the alternatives listed below are available for your next ten shopping or personal business trips, how many of the ten trips would you make using each alternative? *(Write the number of trips in the box next to each alternative.)*

2.0% = 2/10 trips	() walk with improved facilities	1.8	} Means
3.0% = 3/10 trips	() bicycle	1.2	
7.5% = 7.5/10 trips	() bus/transit	0.4	
4.1% = 4.1/10 trips	() car (driver or passenger)	6.6	
	(10) TOTAL TRIPS	31.2% = 31.2/100 trips	

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to a \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

Please turn to the following page.

YOU HAVE JUST READ AN ASSUMED REGULATION FOR CAR USAGE. IMAGINE THAT THIS SITUATION FOR CAR USAGE EXISTS FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	ANSWER
a. I believe that a congestion fee of two dollars per day is desirable.	4.0%	() 6.0%	() 7.5%	() 23.5%	() 57.5%	1.5%
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	4.5%	() 7.0%	() 5.5%	() 28.5%	() 51.5%	3.0%

2. Please indicate your preference for each of the following transportation alternatives for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" under your least preferred alternative. Please repeat this for each of the statements (a) through (c) below. (If bus service is not available for this shopping or personal business trip, please rank the remaining three alternatives only.)

- a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect.

Please rank the following means of transportation for your next shopping or personal business trip.

Ranked #1		#2	#3	#4	ANSWER
19.0%	() walk	31.5%	25.5%	14.0%	10.0%
25.5%	() bicycle	31.5%	24.0%	8.0%	11.0%
15.0%	() bus or transit	13.5%	19.0%	23.5%	29.0%
36.5%	() car (driver or passenger)	12.5%	20.5%	23.5%	7.0%

- b. Assume that instead of \$2.00 the congestion fee increased to \$4.00 per day. (Please rank again.)

25.0%	() walk	33.5%	21.5%	10.0%	10.0%
29.0%	() bicycle	32.0%	21.5%	6.5%	11.0%
18.5%	() bus or transit	13.5%	24.0%	16.0%	28.0%
23.5%	() car (driver or passenger)	10.0%	22.0%	37.0%	2.5%

- c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

24.5%	() walk	33.0%	21.0%	11.0%	11.5%
31.5%	() bicycle	30.0%	21.0%	6.0%	11.5%
16.5%	() bus or transit	15.0%	22.5%	17.0%	29.0%
23.0	() car (driver or passenger)	10.5	24.0	34.5	8.0



City of Huntington Beach

P.O. BOX 180

CALIFORNIA 92648

OFFICE OF THE MAYOR

October 15, 1978

Dear Resident of Huntington Beach:

The City of Huntington Beach is cooperating in a U.S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your work trips only. We are interested in your opinion of the transportation services available to you between your home and your place of work. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800--328-2933.

Sincerely,

Ron Shenkman
Mayor

RS:cd
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME TO WORK.

1. What is the nearest interest intersection or street address of the place where you work?

(nearest intersection or street address)

(city)

2. Where is the place where you work located: *No Answer: 2.2%*

35.3% () central city

62.5% () suburban

3. Specify the type of area where your work place is located. (CHECK ONE) *No Answer: 0.8%*

8.0% () central business district
(downtown of metropolitan area)

27.3% () industrial district

22.6% () neighborhood business district or
shopping center

12.5% () office park/professional building

4.8% () regional shopping center

11.3% () college campus or school

10.8 () other _____

(please specify)

4. Approximately how far is it from your home to your work place (one way)? *No Answer: 0.8%*

1.8% () 2 blocks or less
($\frac{1}{2}$ mile or less)

7.8% () 2 to 4 miles

2.8% () 3 to 6 blocks
($\frac{1}{2}$ to $\frac{1}{2}$ mile)

9.3% () 4 to 6 miles

5.8% () $\frac{1}{2}$ to 1 mile

14.0% () 6 to 10 miles

6.5% () 1 to 2 miles

51.2% () over 10 miles

5. What was the date of your most recent trip to work?

month/day

6. At approximately what time of day did you make this trip to work? *No Answer: 0.5%*

29.1% () before 7 a.m.

5.3% () 10 a.m. to 2 p.m.

28.5% () 7 a.m. to 8 a.m.

9.0% () 2 p.m. to 5 p.m.

18.5% () 8 a.m. to 9 a.m.

3.3% () after 6 p.m.

5.8% () 9 a.m. to 10 a.m.

7. How did you make your most recent trip to work? (CHECK ONE) *No Answer: 0.2%*

1.8% () walked all the way

0.8% () motorcycle

84.2% () drove a car

0.8% () bicycle

8.3% () passenger in a car

0.3% () moped (motorized bicycle)

1.3% () bus

— () taxi

— () train or subway

2.3% () other _____
(please specify)

7a. If you answered bus, train or subway above, how did you get to your bus or transit stop?

— () bicycle

0.3% () drove and parked

— () taxi

0.5% () passenger in a car

0.5% () walked

— () other _____
(please specify)

8. Between the time you left home to go to work and the time you returned home, did you make any side trips that required you to travel more than one mile out of your way? *No Answer: 0.5%*

29.3% () yes

71.0% () no

9. Did anyone accompany you on your last work trip: (CHECK ONE) *No Answer: 0.8%*

79.1% () I traveled alone

2.8% () I was with two other persons

15.0% () I was with one other person

2.3% () I was with three or more persons

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR MOST RECENT TRIP TO WORK WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent work trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For your travel to work we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never use it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to work by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending on how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under "agree", indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your trip to work varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful rating of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF BUS (or transit)

Is bus service available between your home and work place?

41.5% () yes

58.5% () no

If your answer is YES, please rate the statements below concerning how you would feel about going to work by bus even if you didn't choose bus on your last work trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No
1. Going to work by bus is pleasant because I can enjoy the scenery and surroundings.	6.0%	39.2%	26.5%	22.3%	6.0%	—
2. When traveling by bus, it is inconvenient to stop and do errands on my way to and from work.	24.1%	53.1%	5.4%	10.2%	6.6%	0.6%
3. I must schedule my trips in advance when I travel by bus to work.	28.9%	57.3%	9.0%	4.8%	—	—
4. Traveling by bus to work is very tiring.	6.6%	14.5%	30.7%	41.0%	6.6%	0.6%
5. Traveling by bus to work is dangerous because of the heavy traffic.	1.2%	4.8%	18.1%	63.9%	11.4%	0.6
6. When I take the bus to work I worry about being late.	19.9%	40.9%	17.5%	20.5%	1.2%	—
7. I cannot rely on taking a bus to work in rainy weather.	10.8%	23.5%	24.7%	37.4%	3.6%	—
8. I can easily carry my briefcase or other packages when I go to work by bus.	3.6%	55.4%	16.9%	20.5%	3.6%	—
9. It is uncomfortable to travel to work by bus because of rough and bumpy road surfaces.	0.6%	6.6%	24.7%	58.5%	9.6%	—
10. I can get to work quickly when I take the bus.	0.6%	7.2%	18.1%	48.8%	25.3%	—
11. I worry about being mugged or assaulted when I go to work by bus.	4.9%	13.9%	18.7%	51.2%	11.4%	—
12. I worry about being injured in an accident if I go to work by bus.	1.2%	3.6%	22.3%	59.0%	13.3%	0.6%
13. It is relaxing to go to work by bus.	6.6%	34.4%	32.5%	20.5%	5.4%	0.6%
14. I dislike traveling to work by bus because of the many stops and delays at intersections.	20.5%	32.5%	17.5%	27.7%	1.8%	—
15. I must walk a long distance to get to and from the bus when I go to work.	15.7%	33.1%	20.5%	27.1%	3.0%	0.6%
16. There is generally a long wait involved when I go to work by bus.	22.9%	41.0%	22.9%	11.4%	1.2%	0.6%
17. When traveling by bus to work I worry about perspiring or soiling my clothes.	3.0%	9.6%	28.3%	50.1%	8.4%	0.6%
18. It is inexpensive to travel by bus to work.	9.6%	42.2%	25.9%	18.7%	3.6%	—

YOUR RATING OF WALK

Is your work place located less than 3 miles from your home?

29.87%) yes

70.27%) no

If your answer is YES, please rate the statements below concerning how you would feel about walking to work even if you did not walk on your last work day.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Walking to work is pleasant because I can enjoy the scenery and surroundings.	12.0%	37.4%	33.7%	14.5%	2.4%	—
2. When walking, it is convenient to stop and do errands on my way to and from work.	7.2%	37.3%	7.2%	38.7%	9.6%	—
3. I can pick up and go anytime I like when I walk to work.	2.4%	44.7%	9.6%	33.7%	9.6%	—
4. Walking to work is tiring.	8.4%	38.6%	14.5%	33.7%	4.8%	—
5. Walking to work is dangerous because of the heavy traffic.	7.2%	19.3%	14.5%	53.0%	6.0%	—
6. When I walk to work I worry about being late.	15.7%	36.1%	13.3%	33.7%	1.2%	—
7. I cannot rely on walking to work in rainy weather.	37.3%	45.9%	10.8%	6.0%	—	—
8. I can easily carry my briefcase or other packages when I walk to work.	1.2%	34.9%	8.4%	41.0%	14.5%	—
9. It is uncomfortable to walk to work because of rough or bumpy walking surfaces.	3.6%	7.2%	8.4%	70.0%	10.8%	—
10. I can get to work quickly when I walk.	2.4%	18.1%	14.5%	50.5%	14.5%	—
11. I worry about being mugged or assaulted when I walk to work.	9.6%	13.3%	14.5%	43.1%	13.3%	1.2%
12. I worry about being injured in an accident if I walk to work.	2.4%	22.9%	13.3%	53.0%	8.4%	—
13. It is relaxing to walk to work.	7.2%	42.2%	24.1%	21.7%	4.8%	—
14. I dislike walking to work because of the many delays at intersections.	2.4%	9.6%	21.7%	61.5%	4.8%	—
15. Walking to work is unsafe because of the lack of pathways that are separated from motorized traffic.	7.2%	12.0%	7.2%	66.4%	7.2%	—
16. Walking to work is dangerous because motorists are inconsiderate of pedestrians.	9.6%	18.1%	20.5%	49.4%	2.4%	—
17. When walking to work I worry about perspiring or soiling my clothes.	8.4%	34.9%	18.1%	36.2%	2.4%	—
18. Walking to work gives nealtnful exercise.	38.6%	56.6%	3.6%	—	1.2%	—

YOUR RATING OF CAR

When using a car, are you usually a:

91.7% () car driver?

8.3% () car passenger?

If you are usually a car driver, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about driving to work.

If you are usually a car passenger, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about going to work as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Traveling by car to work is pleasant because I can enjoy the scenery and surroundings.	5.0%	22.5%	41.4%	23.8%	6.0%	1.3%
2. When traveling by car, it is convenient to stop and do errands on my way to and from work.	28.5%	58.2%	4.8%	6.5%	1.5%	0.5%
3. I can pick up and go anytime I like when I travel by car to work.	35.3%	53.1%	3.0%	7.3%	0.5%	0.8%
4. Traveling by car to work is tiring.	5.8%	18.8%	15.8%	43.5%	15.3%	0.8%
5. Traveling by car to work is dangerous because of the heavy traffic.	9.5%	24.5%	24.5%	35.2%	5.8%	0.5%
6. When I go by car to work I worry about being late.	2.0%	7.5%	13.3%	55.1%	21.3%	0.8%
7. I cannot rely on traveling by car to work in rainy weather.	1.8%	2.8%	4.3%	59.8%	30.5%	0.8%
8. I can easily carry my briefcase or other packages when I travel by car to work.	36.8%	57.9%	3.0%	0.5%	1.0%	0.8%
9. It is uncomfortable to travel by car to work because of rough or bumpy road surfaces.	1.3%	2.0%	9.0%	60.2%	27.0%	0.5%
10. I can get to work quickly when I travel by car.	30.0%	51.7%	9.5%	5.8%	2.5%	0.5%
11. I worry about being mugged or assaulted when I travel by car to work.	0.5%	1.3%	6.5%	53.7%	37.0%	1.0%
12. I worry about being injured in an accident if I travel by car to work.	3.8%	13.0%	26.3%	42.6%	13.8%	0.5%
13. It is relaxing to travel by car to work.	7.3%	28.0%	36.8%	23.3%	3.8%	0.8%
14. I dislike traveling by car to work because of the many delays at intersections.	2.8%	18.3%	25.3%	43.0%	9.3%	0.8%
15. Parking the car at my place of work is expensive.	1.3%	2.5%	5.0%	41.8%	48.6%	0.8%
16. After parking the car, I must walk a long distance when I go to work.	0.8%	2.5%	5.3%	50.9%	40.0%	0.5%
17. I worry about the car being stolen or vandalized at work.	3.3%	9.3%	12.5%	48.1%	26.3%	0.5%
18. It is inexpensive to buy and operate a car.	9.0%	13.3%	10.5%	34.2%	32.5%	0.5%
19. Parking the car at work is no trouble.	34.5%	55.1%	3.8%	4.8%	1.0%	0.8%

YOUR RATING OF BICYCLE

Is your work place located less than 6 miles from your home?

2.07%) Yes

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to work even if you don't own a bicycle, or didn't ride a bicycle on your last trip to work.

68.07%) No

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No
1. Bicycling to work is pleasant because I can enjoy the scenery and surroundings.	7.87%	35.17%	29.79%	17.27%	9.49%	0.87%
2. When biking, it is convenient to stop and do errands on my way to and from work.	2.37%	19.57%	18.87%	45.37%	13.37%	0.87%
3. I can pick up and go anytime I like when I go to work by bicycle.	2.37%	37.07%	21.97%	28.97%	6.37%	1.67%
4. Traveling to work by bicycle is tiring.	10.97%	37.57%	21.17%	26.67%	3.17%	0.87%
5. Riding a bicycle to work is dangerous because of the heavy traffic.	23.47%	34.37%	18.87%	31.17%	1.67%	0.87%
6. When I ride the bicycle to work I worry about being late.	10.27%	29.77%	21.17%	36.67%	1.67%	0.87%
7. I cannot rely on riding a bicycle to work in rainy weather.	43.07%	50.07%	2.37%	3.77%	—	0.87%
8. I can easily carry my briefcase or other packages when I ride the bicycle to work.	2.37%	15.67%	14.17%	48.47%	18.87%	0.87%
9. It is uncomfortable to travel to work by bicycle because of rough and bumpy riding surfaces.	3.97%	23.47%	21.97%	44.57%	5.57%	0.87%
10. I can get to work quickly when I go by bicycle.	3.17%	32.57%	18.07%	35.97%	11.77%	0.87%
11. I worry about being mugged or assaulted when I travel to work by bicycle.	6.37%	12.57%	25.87%	43.77%	10.97%	0.87%
12. I worry about being injured in an accident if I ride the bicycle to work.	20.37%	35.27%	16.47%	23.47%	3.97%	0.87%
13. It is relaxing to travel to work by bicycle.	1.67%	28.97%	22.77%	34.37%	10.97%	1.67%
14. I dislike traveling to work by bicycle because of the many stops and delays at intersections.	7.07%	24.27%	27.37%	38.47%	2.37%	0.87%
15. Riding the bicycle to work is unsafe because of the lack of bike paths that are separated from motorized traffic.	22.77%	27.37%	14.87%	28.17%	6.37%	0.87%
16. Going by bicycle to work is dangerous because motorists are inconsiderate of bicyclists.	21.97%	32.79%	25.87%	18.07%	0.87%	0.87%
17. When bicycling to work I worry about perspiring or soiling my clothes.	18.87%	39.07%	16.47%	24.27%	—	1.67%
18. Riding a bicycle to work gives healthful exercise.	39.87%	49.27%	7.87%	1.67%	0.87%	0.87%
19. Parking, locking and unlocking my bicycle at work is no trouble.	10.27%	56.27%	11.77%	18.07%	3.17%	0.87%
20. After parking my bicycle I must walk a long distance when I go to work.	—	3.17%	7.87%	67.27%	21.17%	0.87%
21. I worry about my bicycle being stolen at work.	8.67%	34.47%	12.57%	34.37%	8.67%	1.67%
22. It is inexpensive to buy and operate a bicycle.	17.27%	45.37%	18.07%	15.67%	2.37%	1.67%

1. Imagine that only BUS, WALK, BICYCLE, and CAR (driver or passenger) were available for your most recent work trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative.

RANKED #1		RANKED #2	RANKED #3	RANKED #4	RANKED #5
4.0%	() bus	37.6%	6.8%	14.3%	37.3%
3.0%	() walk	8.0%	41.7%	40.8%	6.5%
3.8%	() bicycle	42.6%	42.3%	5.3%	6.0%
88.6%	() car (driver or passenger)	6.3%	3.0%	0.8%	1.3%

- | | Did Not
Use | 1-5
Days | 6-10
Days | 11-15
Days | 16-20
Days | More Than
20
Days | NO
ANSWER |
|--------------------------|----------------|-------------|--------------|---------------|---------------|-------------------------|--------------|
| bus | 88.1% | 1.0% | — | 0.3% | 0.3% | 1.3% | 9.0% |
| walk | 82.5% | 5.3% | 1.0% | 1.0% | — | 1.3% | 9.0% |
| drive a car | 4.0% | 5.8% | 3.0% | 6.8% | 10.8% | 62.6% | 2.0% |
| passenger in a car | 62.6% | 14.5% | 3.8% | 4.8% | 2.3% | 4.5% | 7.5% |
| bicycle | 84.9% | 4.0% | 1.5% | — | 0.3% | — | 9.3% |
| other _____
(specify) | — | 1.8% | — | 0.3% | 0.8% | 0.8% | 96.3% |

- (If bus service is not available for your work trip, please rank the three remaining alternatives.)

1st		(a) \$1.00 Per Gallon		(b) \$1.50 Per Gallon		(c) \$3.00 Per Gallon		(d) \$4.00 Or More Per Gallon			
1st	2nd	1	2	1	2	1	2	1	2		
3.3%	6.8%	walk ()	4.3%	7.8%	walk ()	6.5%	10.8%	walk ()	7.0	13.0%	walk ()
6.8%	33.0%	bicycle ()	11.0%	32.8%	bicycle ()	20.3	34.1	bicycle ()	21.5	35.4	bicycle ()
6.8%	38.9%	bus ()	14.5%	32.5%	bus ()	24.5	21.3	bus ()	29.3	19.8	bus ()
82.2%	9.0%	car ()	16.8%	15.3%	car ()	42.7	21.0	car ()	39.9	18.5	car ()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU.
PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU WORK BY
ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO WORK IS 6 MILES OR LESS.

1. If you were to ride your bicycle to work, what is your best estimate of the time you would spend doing each of the following?

getting the bicycle to the street 2.18 (minutes)

riding the bicycle 23.07 (minutes)

parking and locking up the bicycle 2.92 (minutes)

walking from bicycle to school 1.45 (minutes)

TOTAL TIME FROM HOME TO WORK 29.45 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to work?

0.8% () bicycle path (off the street)

26.8% () bicycle lane (on the street)

5.3% () neither

7.3% () don't know

0.3% () both

3. What portion of your total trip from home to work is served by bicycle paths or bicycle lanes?

4.8% () none

7.8% () less than 1/4 the distance

6.0% () 1/4 to 1/2 the distance

5.5% () 1/2 to 3/4 the distance

8.5% () more than 3/4 of the distance

7.8% () don't know

ANSWER IF DISTANCE FROM HOME TO WORK IS 3 MILES OR LESS.

4. If you were to walk to work, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at work? _____ (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to work?

17.8% () all or almost all the way

5.5% () part of the way

1.8% () there are none

1.8% () don't know

Is your work place located less than 6 miles away from your home?

32.5%) Yes

67.5% () No

If your answer is YES, please read below.

If your answer is NO, please go on to page 16.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO WORK USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right hand side of the road, marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for a better ride. In addition, high intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high employment centers, these consist of enclosed free storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to work, assuming the bicycle facility improvements described above are available to you on your next work trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to work using the facility improvements described on your previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Bicycling to work would be pleasant because I could enjoy the scenery and surroundings.	21.2%	57.6%	15.2%	3.0%	3.0%	—
2. When biking, it would be convenient to stop and do errands on my way to and from work.	9.2%	27.7%	16.9%	41.6%	4.6%	—
3. I could pick up and go anytime I like when I go to work by bicycle.	4.6%	52.4%	24.6%	16.9%	1.5%	—
4. Traveling to work by bicycle would be tiring.	9.2%	33.9%	24.6%	27.7%	4.4%	—
5. Riding a bicycle to work would be dangerous because of the heavy traffic.	4.6%	15.4%	18.5%	55.3%	6.2%	—
6. If I rode the bicycle to work, I would worry about being late.	7.7%	23.1%	13.8%	55.4%	—	—
7. I could not rely on riding a bicycle to work in rainy weather.	23.1%	69.2%	7.7%	—	—	—
8. I could easily carry my briefcase or other packages when I ride the bicycle to work.	3.1%	20.0%	16.9%	46.2%	13.8%	—
9. It would be uncomfortable to travel to work by bicycle because of rough and bumpy surfaces.	1.5%	9.2%	15.4%	64.7%	9.2%	—
10. I could get to work quickly when I go by bicycle.	—	43.1%	16.9%	92.3%	7.7%	—
11. I would worry about being mugged or assaulted when I travel to work by bicycle.	4.6%	12.3%	21.5%	47.8%	13.8%	—
12. I would worry about being injured in an accident if I ride the bicycle to work.	7.7%	16.9%	15.4%	50.8%	9.2%	—
13. It would be relaxing to travel to work by bicycle.	4.6%	35.4%	26.2%	27.7%	4.6%	1.5%
14. I would dislike traveling to work by bicycle because of the many stops and delays at intersections.	3.1%	16.9%	20.0%	60.0%	—	—
15. Riding the bicycle to work would be unsafe because of lack of bike paths that are separated from motor traffic.	6.2%	7.7%	15.4%	56.9%	12.3%	1.5%
16. Going by bicycle to work would be dangerous because motorists are inconsiderate of bicyclists.	7.7%	20.0%	21.5%	43.1%	7.7%	—
17. When bicycling to work I would worry about perspiring or soiling my clothes.	10.8%	33.9%	21.5%	29.2%	4.6%	—
18. Riding a bicycle to work would give healthful exercise.	30.8%	56.9%	9.2%	3.1%	—	—
19. Parking, locking and unlocking my bicycle at work would be no trouble.	13.8%	67.7%	10.8%	6.2%	1.5%	—
20. After parking my bicycle I would have to walk a long distance when I go to work.	—	—	6.2%	73.8%	20.0%	—
21. I would worry about my bicycle being stolen at work.	7.7%	16.9%	12.3%	52.3%	10.8%	—
22. It would be inexpensive to buy and operate a bicycle.	15.4%	46.2%	13.8%	21.5%	3.1%	—

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and your place of work, rank the three remaining alternatives only.)

- a. Assume the bicycle facilities are in place. please rank the following means of travel for your next trip to work.

RANKED #1		#2	#3	#4	NO ANSWER
15.4%	() bicycle with improved facilities	55.4%	29.2%	—	—
7.7%	() walk	12.3%	44.6%	35.4%	—
—	() bus/transit	21.5%	16.9%	41.6%	20.0%
76.9%	() car (driver or passenger)	10.8%	9.2%	3.1%	—

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$ 1.50 per gallon. (Please rank again.)

#1		#2	#3	#4	NO ANSWER
33.8%	() bicycle with improved facilities	36.9%	26.2%	—	3.1%
7.7%	() walk	21.5%	38.5%	29.2%	3.1%
9.2%	() bus/transit	15.4%	16.9%	35.4%	23.1%
46.1%	() car (driver or passenger)	23.1%	15.4%	12.3%	3.1%

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

#1		#2	#3	#4	NO ANSWER
55.5%	() bicycle with improved facilities	29.2%	13.8%	—	1.5%
10.8%	() walk	41.6%	21.5%	24.6%	1.5%
16.9%	() bus/transit	9.2%	18.5%	33.9%	21.5%
15.4%	() car (driver or passenger)	18.5%	44.6%	20.0%	1.5%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

- 1.4 () bicycle with improved facilities
 1.1 () walk
 0.6 () bus/transit
 6.9 () car (driver or passenger)

(10) TOTAL TRIPS

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion and costly street and highway expenditures. It has been suggested that in order to reduce these problems people must live nearer to their places of employment, shopping, school and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six block ($\frac{1}{2}$ mile) distance, and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to work without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available to work places; there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS or CAR for your work trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statement:

I would like to live in this type of community. 33.5%) 33.0%) 21.5% () 4.5% () 4.0% () 3.5%

Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
33.5%	33.0%	21.5%	4.5%	4.0%	3.5%

2. Please indicate your preference for each of the following transportation alternatives on your next trip to work, by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. Please repeat the process for each statement (a) through (d) below.

a. Assume the living conditions and special transportation facilities described on the previous page exist for your next trip to work, and assume further that your trip to work is approximately one mile away. (Please rank the following means of transportation.)

Ranked #1		#2	#3	#4	No Answer
27.5%	() walk	33.5%	16.0%	16.0%	7.0%
42.0%	() bicycle	35.5%	12.5%	4.0%	6.0%
7.5%	() bus or transit	13.5%	34.5%	33.5%	11.0%
21.5%	() car (driver or passenger)	10.0%	28.0%	35.5%	5.0%

b. Now suppose that in addition to the conditions described in (a) above, the price of gasoline

Ranked #1	increased to \$1.50 per gallon. (Please rank again.)	#2	#3	#4	No Answer
27.5%	() walk	36.0%	16.0%	14.0%	6.5%
45.5%	() bicycle	33.0%	12.5%	2.0%	7.0%
10.0%	() bus or transit	13.5%	41.0%	24.5%	11.0%
15.0%	() car (driver or passenger)	9.5%	21.0%	48.0%	6.0%

c. Assume the conditions described in (a) above and assume that in addition, the speed limit was reduced to 15 mph in the community.

Ranked #1		#2	#3	#4	No Answer
29.5%	() walk	39.0%	14.0%	12.0%	5.5%
47.0%	() bicycle	35.0%	9.5%	2.0%	6.5%
9.5%	() bus or transit	10.0%	40.5%	29.5%	10.5%
12.5%	() car (driver or passenger)	8.5%	27.0%	45.5%	6.5%

d. Assume again the conditions described in (a) above but this time, assume no parking was available at your work place. (Please rank.)

36.5%	() walk	35.0%	16.5%	7.0%	5.0%
41.0%	() bicycle	43.5%	7.5%	1.5%	6.5%
13.5%	() bus or transit	10.0%	53.5%	13.5%	9.5%
7.5%	() car (driver or passenger)	4.0%	13.5%	68.0%	7.0%

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 37.7 mean (age) 16-25 26-35 36-50 51-65 >65 11/12
 16.8% 26.3% 40.6% 14.8% 0.8% 0.7%
2. What is your sex? 50% () Male 50% () Female
3. How many adults (18 or over) including yourself are there in your household? 2.3
4. How many minors (under 18) are there in your household? 1.3
5. Do you have a valid driver's license? 92.7% () Yes 1.8% () No No Answer: 0.3%
6. How many licensed drivers (including yourself) are there in your household? 2.4
7. How many automobiles are there in your household? 2.4
8. Do you own a bicycle? 66.9% () Yes 32.8% () No
9. How many bicycles are there in your household? 2.2
10. What type of structure do you live in? No Answer: 0.8%
 88.3% () single family 0.3% () low rise apartment (4 to 8 stories)
 0.8% () duplex — () high rise apartment (more than 8 stories)
 2.3% () townhouse 4.5% () other _____
 3.0% () walk-up apartment (3 stories or less) (please specify)
11. What is your educational background? (CHECK ONE)
 0.3% () completed elementary school 19.3% () college or technical school graduate
 6.5% () some high school 6.3% () some graduate school
 19.0% () high school graduate 9.5% () completed graduate degree(s)
 39.1% () some college or technical school
12. Please indicate your work group below: No Answer: 0.5%
 85.4% () work 5 or more days a week 1.8% () work 1-2 days a week
 11.3% () work 3-4 days a week 1.0% () presently unemployed
13. What is your occupation? (CHECK ONE)
 41.9% () professional-technical 10.0% () sales worker
 9.0% () managerial 18.3% () secretarial-clerical-cashier
 17.5% () blue collar 2.8% () other _____
 0.5 () Student (please specify)

- In the space below we would welcome any other comments you would like to make. Enclose additional pages if you like.

182

Is your work place located less than 3 miles from your home?

20.9% () Yes

80.0% No ()

If your answer is YES, please read below.

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO WORK USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrian ways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass medians. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to work, assuming the facility improvements described above are available to you on your next trip to work.

(You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to work using the facility improvements described on the previous page, even if you did not walk on your last trip to work.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No. Answer
1. Walking to work would be pleasant because I could enjoy the scenery and surroundings.	32.5%	40.0%	17.5%	7.5%	2.5%	—
2. When walking, it would be convenient to stop and do errands on my way to and from work.	7.5%	30.0%	17.5%	42.5%	2.5%	—
3. I could pick up and go anytime I like when I walk to work.	2.5%	50.0%	17.5%	25.0%	5.0%	—
4. Walking to work would be tiring.	5.0%	27.5%	30.0%	37.5%	—	—
5. Walking to work would be dangerous because of the heavy traffic.	—	10.0%	22.5%	55.0%	12.5%	—
6. If I walked to work I would worry about being late.	7.5%	25.0%	20.0%	45.0%	—	2.5%
7. I could not rely on walking to work in rainy weather.	35.0%	55.0%	5.0%	5.0%	—	—
8. I could easily carry my briefcase or other packages when I walk to work.	—	35.0%	5.0%	52.5%	7.5%	—
9. It would be uncomfortable to walk to work because of rough or bumpy walking surfaces.	—	5.0%	10.0%	70.0%	15.0%	—
10. I could get to work quickly when I walk.	—	22.5%	22.5%	50.0%	5.0%	—
11. I would worry about being mugged or assaulted when I walk to work.	—	7.5%	27.5%	52.5%	12.5%	—
12. I would worry about being injured in an accident if I walk to work.	2.5%	10.0%	17.5%	62.5%	7.5%	—
13. It would be relaxing to walk to work.	12.5%	42.5%	15.0%	22.5%	5.0%	2.5%
14. I would dislike walking to work because of the many delays at intersections.	—	5.0%	20.0%	65.0%	7.5%	2.5%
15. Walking to work would be unsafe because of the lack of pathways that are separated from motorized traffic.	2.5%	2.5%	10.0%	67.5%	12.5%	5.0%
16. Walking to work would be dangerous because motorists are inconsiderate of pedestrians.	10.0%	7.5%	20.0%	55.0%	5.0%	2.5%
17. When walking to work I would worry about perspiring or soiling my clothes.	12.5%	42.5%	20.0%	25.0%	—	—
18. Walking to work would give healthful exercise.	52.5%	47.5%	—	—	—	—

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

- i. Please indicate your preference for each of the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.
(If bus service is not available between your home and work place, rank the three remaining alternatives only.)

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next trip to work.

Ranked #1		Ranked #2	Ranked #3	Ranked #4	100 Answer
10.0%	() walk with improved facilities	30.0%	45.0%	10%	5.0%
10.0%	() bicycle	50.0%	30.0%	7.5%	2.5%
—	() bus/transit	15.0%	2.5%	47.5%	35.0%
77.5%	() car (driver or passenger)	2.5%	17.5%	—	2.5%

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$1.50 per gallon. (Please rank again.)

20.0%	() walk with improved facilities	30.0%	35.0%	17.0%	5.0%
30.0%	() bicycle	37.5%	22.5%	7.5%	2.5%
5.0%	() bus/transit	12.5%	10.0%	37.5%	35.0%
42.5%	() car (driver or passenger)	17.5%	27.5%	10.0%	2.5%

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

30.0%	() walk with improved facilities	35.0%	22.5%	5.0%	7.5%
40.0%	() bicycle	40.0%	10.0%	7.5%	2.5%
12.5%	() bus/transit	5.0%	12.5%	32.5%	37.5%
15.0%	() car (driver or passenger)	15.0%	47.5%	17.5%	5.0%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

57.5%	0/10 trips	() walk with improved facilities	1.7
67.5%	0/10 trips	() bicycle	1.0
92.5%	0/10 trips	() bus/transit	0.4
15.0%	0/10 trips	() car (driver or passenger)	6.9
50.0%	10/10 trips		10.0
	(10) TOTAL TRIPS		185

(Means)

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1.00 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

PLEASE TURN TO THE FOLLOWING PAGE.

YOU HAVE JUST READ AN ASSUMED FEE ON AUTO USAGE. IMAGINE THAT THIS SITUATION EXISTS FOR YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
a. I believe that a congestion fee of two dollars per day is desirable.	3.0%	4.0%	5.0%	21.5%	65.5%	1.0%
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	5.0%	3.5%	8.5%	23.0%	57.0%	3.0%

2. Please indicate your preference for each of the following transportation alternatives for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat this for each of the statements (a) through (d) below.

(If bus service is not available for your work trip, please rank the three remaining alternatives below.)

a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect. Please

rank the following means of transportation for your next trip to work.

Ranked #1		Ranked #2	Ranked #3	Ranked #4	NO ANSWER
5.0%	() walk	11.5%	37.0%	35.5%	11.0%
14.0%	() bicycle	37.5%	34.5%	4.5%	9.5%
17.0%	() bus or transit	25.5%	7.5%	8.0%	42.0%
61.5%	() car (driver or passenger)	16.0%	9.5%	8.5%	4.5%

b. Assume that instead of \$2.00, the congestion fee increased to \$4.00 per day. (Please rank again.)

6.5%	() walk	15.0%	34.0%	33.5%	11.0%
19.5%	() bicycle	39.5%	29.0%	2.5%	9.5%
23.5%	() bus or transit	19.0%	9.5%	6.0%	42.0%
47.5%	() car (driver or passenger)	16.5%	15.5%	14.5%	6.0%

c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

5.0%	() walk	16.0%	35.0%	32.0%	12.0%
19.0%	() bicycle	40.0%	27.5%	3.0%	10.5%
22.0%	() bus or transit	20.0%	8.5%	7.0%	42.5%
50.0%	() car (driver or passenger)	13.0%	16.5%	14.0%	6.5%

d. Assume that the congestion fee of \$2.00 per day was in effect, and assume further that your employer allowed you to arrive before 7:00 a.m. and leave before 4:00 p.m., or to arrive after 9:00 a.m. and leave after 6:00 p.m. (Please rank.)

3.0%	() walk	7.0%	40.0%	38.5%	11.5%
5.0%	() bicycle	41.0%	39.5%	4.5%	10.5%
6.5%	() bus or transit	35.5%	7.0%	9.0%	42.0%
82.5%	() car (driver or passenger)	6.5%	2.5%	5.0%	3.5%



CITY OF PHILADELPHIA

PHILADELPHIA CITY PLANNING COMMISSION
13th Floor City Hall Annex
S. E. Cor., Juniper & Filbert St., Philadelphia, Pa 19107
MU 6-1776

WILLIAM L. RAFSKY, Chairman

JOHN C. MITKUS, Executive Director
G. CRAIG SCHELTER, Deputy Executive Director

October 15, 1978

Dear Resident of Society Hill and of Rittenhouse:

The City of Philadelphia is cooperating in a U.S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

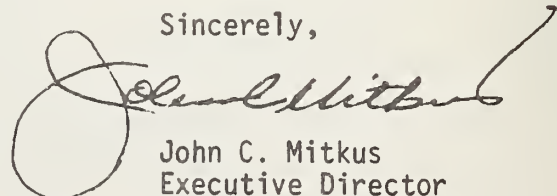
Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your shopping and personal business trips only. We are interested in your opinion of the transportation services available to you for shopping and personal business trips. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800-328-2933.

Sincerely,



John C. Mitkus
Executive Director

JCM:cd
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME FOR THE PURPOSE OF SHOPPING OR PERSONAL BUSINESS. PLEASE EXCLUDE ALL MAJOR GROCERY SHOPPING TRIPS.

1. What is the nearest intersection or street address of the place of your most recent shopping or personal business trip from home?

(nearest intersection or street address)

(city)

2. A list of specific shopping and personal business trip purposes is given below. Please check the one trip purpose that best describes your most recent shopping or personal business trip from home (exclude major grocery shopping trips). (CHECK ONE ONLY)

24.7 (%) Minor grocery shopping (one bag or less)	7.6 (%) eat meal	2.8 (%) other professional
20.6 () clothing/shoes	1.3 () post office	8.2 () bank
5.1 () drugs/bookstore	2.5 () library/museum	2.8 () laundry/dry cleaner/shoe repair
6.6 () hardware/Florist/liquor	4.4 () medical/dental	1.3 () barber/beauty shop
	() other	<u>(please specify)</u>

3. Other than the above stop, did you make any additional stops on the way to and from your shopping/ personal business destination? (CHECK ONE)

38.3 () none (If you answered NONE, go to question 5.)

28.8 () one

17.4 () two

19.2 () three or more

0.3 NO ANSWER

4. Did any of the additional stops between your home and your primary shopping/personal business destination require you to travel more than one mile out of the way?

6.6 () Yes

54.8 () No NO ADDTL STOPS / NO ANSWER: 38.6 %

5. Approximately how far was it directly from your home to your primary shopping/personal business destination (one way)?

21.5 () 2 blocks ($\frac{1}{4}$ mile or less)

5.7 () 2 to 4 miles

29.1 () 3 to 6 blocks ($\frac{1}{2}$ to $\frac{3}{4}$ mile)

2.2 () 4 to 6 miles

21.5 () $\frac{1}{2}$ to 1 mile

1.6 () 6 to 10 miles

14.6 () 1 to 2 miles

2.5 () over 10 miles

1.3 NO ANSWER

6. How many separate parcels, bags or packages were you carrying? (CHECK ONE)
 14.9 (%) none 38.6 () one 28.2 () two 17.7 () three or more 0.6 NO ANSWER
7. How many persons (other than yourself) were with you on this shopping or personal business trip?
 total _____ (number) Children 12 years of age and under _____ (number)
 MEAN: 0.58 MEAN: 0.66
8. Where is this place where you went shopping or on personal business located?
 93.7 () central city 4.7 () suburban NO ANSWER: 1.6
9. Specify the type of area where you went on your shopping/personal business trip. (CHECK ONE)
 57.0 / - () central business district (downtown metropolitan area) 13 / 1.3 () regional shopping center
 28.5 / 1.6 () neighborhood business district or shopping center 0.6 / - () office park/professional building
 2.5 / - () college campus 3.2 / 1.9 () other _____ (please specify)
 1.3 / 0 NO ANSWER
10. What was the date of this most recent trip? VARIES
 (month/day)
11. At approximately what time of day did you make this trip to your shopping/personal business destination?
 3.2 () before 7 a.m. () 10 a.m. to 2 p.m.
 () 7 a.m. to 8 a.m. 30.1 () 2 p.m. to 6 p.m.
 () 8 a.m. to 9 a.m. 7.6 () after 6 p.m.
 58.5 () 9 a.m. to 10 a.m. 0.6 NO ANS.
12. How did you make the trip to this shopping/personal business destination? (CHECK ONE)
 63.3 () walked all the way 0.3 () motorcycle
 12.7 () drove a car 2.2 () bicycle
 3.5 () passenger in a car - () moped (motorized bicycle)
 13.2 () bus 1.6 () taxi
 2.8 () train, subway 0.3 () other _____ (please specify)
 0.3 NO ANS.
- 12a. If you used a bus or transit, how did you get to your bus or transit stop?
 0.3 () bicycle - () drove and parked
 - () taxi - () passenger in a car
 15.5 () walk - () other _____ (please specify)

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR
MOST RECENT SHOPPING OR PERSONAL BUSINESS TRIP WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent shopping or personal business trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For the above trip, we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never used it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to my shopping or personal business destination by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending upon how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree, you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under agree, indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your shopping or personal business trip varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful ratings of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF WALK

Was your most recent shopping or personal business destination located less than 2 miles from your home?

84.2 (%) Yes

15.8 () No

If your answer is YES, please rate the statements below concerning how you would feel about walking to this destination even if you did not walk there on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No AN
1. Walking to this destination is pleasant because I can enjoy the scenery and surroundings.	35.3(9)	41.8()	15.4()	5.6()	1.5()	0.4
2. When shopping or on a personal business trip, it is convenient to stop and do errands when walking.	43.2()	53.0()	1.5()	1.5()	0.8()	-
3. I can pick up and go anytime I like when I walk to go shopping or on personal business trips.	49.6()	44.4()	2.6()	3.0()	0.4()	-
4. Walking to this shopping/personal business destination is tiring.	3.0()	9.0()	12.4()	52.3()	23.3()	-
5. Walking to my shopping/personal business destination is dangerous because of the heavy traffic.	2.6()	11.3()	17.3()	44.2()	19.2()	0.4
6. When on a shopping/personal business trip with children, it is inconvenient to walk.	4.9()	21.1()	31.9()	29.7()	9.4()	3.0
7. I cannot rely on walking to this destination in rainy weather.	6.4()	30.5()	8.6()	42.8()	11.3()	0.4
8. I can easily carry packages when I walk while I am on a shopping/personal business trip.	8.6()	51.1()	13.9()	21.8()	3.8()	0.8
9. It is uncomfortable to walk to this destination because of rough and bumpy walking surfaces.	1.9()	8.3()	10.9()	59.7()	18.8()	0.4
10. I can get to my shopping/personal business destination quickly when I walk.	23.7()	52.6()	11.7()	10.5()	1.5()	-
11. I worry about being mugged or assaulted when I walk to my shopping/personal business destination.	4.1()	12.8()	14.7()	52.4()	15.4()	0.4
12. I worry about being injured in an accident when I walk to my shopping/personal business destination.	1.9()	7.1()	15.4()	54.9()	20.3()	0.4
13. It is relaxing to walk to my shopping/personal business destination.	21.8()	52.3()	16.5()	7.5()	1.1()	0.8
14. I dislike walking to this shopping/personal business destination because of the many delays at intersections.	1.5()	4.9()	13.5()	59.0()	20.7()	0.4
15. Walking to this shopping/personal bus. destination is unsafe due to lack of pathways separated from motorized traffic.	1.1()	3.8()	8.6()	64.3()	21.4()	0.8
16. Walking to this shopping/personal bus. destination is dangerous because motorists are inconsiderate of pedestrians.	7.9()	25.2()	19.5()	37.2()	10.2()	-
17. When walking to this shopping/personal bus. destination, I worry about perspiring or soiling my clothes.	1.1()	3.4()	15.4()	56.0()	23.7()	0.4
18. Walking to this shopping/personal business destination gives healthful exercise.	44.7()	46.3()	7.5()	1.1()	- ()	0.4

YOUR RATING OF CAR

When using a car, are you usually a:

61.7 (%) car driver

38.3 () car passenger

If you are usually a car driver, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about driving on this trip.

If you are usually a car passenger, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about going to this destination as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No
1. Traveling by car to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	() 4.1%	() 19.3	() 27.5	() 32.3	() 15.2	1.6
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by car.	() 7.6	() 21.8	() 8.2	() 27.7	() 22.8	1.9
3. I can pick up and go anytime I like when I travel by car on shopping or on personal business trips.	() 12.3	() 42.1	() 10.9	() 20.6	() 8.2	1.9
4. Traveling by car to this shopping/personal business destination is tiring.	() 7.0	() 24.4	() 20.9	() 23.8	() 11.4	2.5
5. Traveling by car to my shopping/personal business destination is dangerous because of the heavy traffic.	() 6.6	() 24.7	() 21.5	() 36.8	() 8.5	1.9
6. When on a shopping/personal business trip with children, it is inconvenient to go by car.	() 6.6	() 13.3	() 26.9	() 37.4	() 12.0	3.8
7. I cannot rely on traveling by car to this destination in rainy weather.	() 2.6	() 9.8	() 15.5	() 49.8	() 19.9	2.2
8. I can easily carry packages when I travel by car while I am on a shopping/personal business trip.	() 33.2	() 55.1	() 5.7	() 3.5	() 0.9	1.6
9. It is uncomfortable to travel by car to this shopping/personal business destination because of rough or bumpy road surfaces.	() 3.5	() 14.9	() 19.6	() 47.4	() 12.7	1.9
10. I can get to my shopping/personal business destination quickly when I travel by car.	() 12.7	() 24.2	() 15.8	() 26.6	() 8.5	2.2
11. I worry about being mugged or assaulted when I travel by car to my shopping/personal business destination.	() 0.9	() 1.9	() 9.5	() 52.6	() 33.2	1.9
12. I worry about being injured in an accident when I travel by car to my shopping/personal business destination.	() 3.2	() 15.2	() 19.3	() 42.1	() 18.0	2.2
13. It is relaxing to travel by car to my shopping/personal business destination.	() 6.3	() 16.9	() 23.7	() 40.9	() 10.4	1.9
14. I dislike traveling by car to this shopping/personal business destination because of the many delays at intersections.	() 13.0	() 39.9	() 18.7	() 21.2	() 4.7	2.5
15. Parking the car at this destination is expensive.	() 32.9	() 30.7	() 12.0	() 14.9	() 7.6	1.9
16. After parking the car, I must walk a long distance when I go to this shopping/personal business destination.	() 7.0	() 21.8	() 24.1	() 34.7	() 10.8	1.6
17. I worry about the car being stolen or vandalized at this destination.	() 7.6	() 15.5	() 17.1	() 45.6	() 12.3	1.9
18. It is inexpensive to buy and operate a car.	() 6.6	() 7.0	() 5.4	() 30.7	() 48.4	1.9
19. Parking the car is no trouble when on this shopping/personal business trip.	() 6.6	() 15.2	() 19.8	() 26.6	() 34.9	1.9

YOUR RATING OF BICYCLE

Was your most recent shopping or personal business destination located less than 4 miles from your home?

85.4 () Yes

14.6 () No

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination, even if you don't own a bicycle or didn't ride a bicycle on your last trip to this destination.

If your answer is NO, please go to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree
1. Bicycling to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	12.2 ()	29.5 ()	23.7 ()	23.7 ()	10.4 () 1.5
2. When shopping or on a personal business trip, it is convenient to stop and do errands, when riding a bicycle.	8.1 ()	29.3 ()	12.2 ()	36.0 ()	12.2 () 2.2
3. I can pick up and go anytime I like when I ride a bicycle to go shopping or on personal business trips.	11.9 ()	43.1 ()	11.0 ()	20.7 ()	5.9 () 1.5
4. Riding a bicycle to this shopping/personal business destination is tiring.	3.7 ()	15.6 ()	17.8 ()	46.6 ()	14.3 () 1.5
5. Riding a bicycle to my shopping/personal business destination is dangerous because of the heavy traffic.	32.6 ()	46.4 ()	9.6 ()	8.1 ()	2.6 () 0.7
6. When on a shopping/personal business trip with children, it is inconvenient to ride the bicycle.	34.1 ()	38.5 ()	13.3 ()	7.0 ()	5.2 () 1.7
7. I cannot rely on riding a bicycle to this destination in rainy weather.	30.0 ()	49.0 ()	11.1 ()	8.1 ()	1.1 () 0.7
8. I can easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	0.7 ()	22.2 ()	15.6 ()	41.2 ()	19.4 () 0.7
9. It is uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	8.9 ()	33.7 ()	21.5 ()	32.2 ()	3.0 () 0.7
10. I can get to my shopping/personal business destination quickly, when I ride a bicycle.	14.4 ()	54.9 ()	13.0 ()	13.3 ()	3.7 () 0.7
11. I worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	4.8 ()	10.7 ()	14.3 ()	48.9 ()	14.8 () 1.5
12. I worry about being injured in an accident when I ride a bicycle to my shopping/personal business destination.	20.4 ()	43.3 ()	14.1 ()	19.6 ()	2.2 () 0.4
13. It is relaxing to ride by bicycle to my shopping/personal business destination.	5.2 ()	30.0 ()	21.9 ()	31.5 ()	10.7 () 0.7
14. I dislike traveling by bicycle to this shopping/personal bus. destination because of many delays at intersections.	7.0 ()	21.9 ()	28.1 ()	35.2 ()	5.9 () 1.9
15. Bicycling to this shopping/personal bus. destination is unsafe due to lack of bike paths separated from motorized traffic.	46.2 ()	37.8 ()	10.4 ()	4.1 ()	1.1 () 0.4
16. Going by bicycle to this destination is dangerous because motorists are inconsiderate of bicyclists.	37.8 ()	39.3 ()	16.3 ()	5.2 ()	0.7 () 0.7
17. When bicycling to this shopping/personal business destination, I worry about perspiring or soiling my clothes.	4.1 ()	15.6 ()	33.0 ()	36.6 ()	10.0 () 0.7
18. Riding a bicycle gives healthful exercise.	48.6 ()	40.7 ()	5.9 ()	2.2 ()	1.5 () 1.1
19. Parking, locking and unlocking my bicycle at this destination is no trouble.	5.2 ()	21.1 ()	17.0 ()	33.4 ()	32.2 () 1.1
20. I worry about my bicycle being stolen at this shopping/personal business destination.	30.7 ()	37.1 ()	15.2 ()	11.5 ()	4.4 () 1.1
21. It is inexpensive to buy and operate a bicycle.	20.0 ()	50.4 ()	13.3 ()	12.2 ()	2.6 () 1.1

YOUR RATING OF BUS (or transit)

Is bus service available between your home and this shopping or personal business destination?

77.5 (%) Yes

22.5 (%) No

If your answer is YES, please rate the statements below concerning how you would feel about going to this destination by bus even if you didn't choose bus on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree
1. Going to this destination by bus is pleasant because I can enjoy the scenery and surroundings.	3.3 ()	26.1 ()	32.3 ()	26.1 ()	11.8 () 0.4
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by bus.	3.7 ()	20.4 ()	9.0 ()	48.1 ()	17.6 () 1.2
3. I must schedule my trips in advance when I travel by bus to go shopping or on personal business trips.	6.1 ()	26.9 ()	19.2 ()	40.1 ()	6.1 () 1.6
4. Traveling by bus to this shopping/personal business destination is tiring.	10.2 ()	24.5 ()	20.4 ()	39.6 ()	4.5 () 0.8
5. Traveling by bus to my shopping/personal business destination is dangerous because of the heavy traffic.	2.0 ()	6.9 ()	20.8 ()	52.8 ()	15.9 () 1.4
6. When on a shopping/personal business trip with children, it is inconvenient to take the bus.	8.2 ()	26.1 ()	26.9 ()	27.4 ()	6.5 () 4.9
7. I cannot rely on taking a bus to this destination in rainy weather.	5.7 ()	20.4 ()	13.1 ()	49.4 ()	10.2 () 1.2
8. I can easily carry packages when I travel by bus while I am on a shopping/personal business trip.	2.9 ()	37.1 ()	14.7 ()	36.3 ()	2.2 () 0.8
9. It is uncomfortable to travel to this destination by bus because of rough or bumpy road surfaces.	5.7 ()	18.8 ()	27.8 ()	38.3 ()	8.2 () 1.2
10. I can get to my shopping/personal business destination quickly when I travel by bus.	4.4 ()	32.7 ()	14.7 ()	32.6 ()	13.1 () 2.0
11. I worry about being mugged or assaulted when I travel by bus to my shopping/personal business destination.	4.5 ()	14.3 ()	16.7 ()	52.7 ()	10.2 () 1.6
12. I worry about being injured in an accident when I travel by bus to my shopping/personal business destination.	2.9 ()	4.1 ()	16.7 ()	59.6 ()	15.1 () 1.6
13. It is relaxing to travel by bus to my shopping/personal business destination.	2.9 ()	24.9 ()	23.7 ()	33.4 ()	13.9 () 1.2
14. I dislike traveling by bus to this shopping/personal bus destination because of the many delays at intersections.	12.2 ()	33.2 ()	22.4 ()	29.4 ()	1.2 () 1.6
15. I must walk a long distance to get to and from the bus when I go to this shopping/personal business destination.	2.0 ()	12.2 ()	12.7 ()	58.0 ()	13.5 () 1.6
16. There is generally a long wait involved when I travel by bus to this shopping/personal business destination.	16.3 ()	38.3 ()	17.6 ()	24.1 ()	2.9 () 0.8
17. When traveling by bus to this shopping/personal business destination I worry about perspiring or soiling my clothes.	4.1 ()	8.2 ()	20.8 ()	52.2 ()	13.5 () 1.2
18. It is inexpensive to travel by bus to this shopping/personal business location.	7.8 ()	42.9 ()	14.7 ()	26.5 ()	6.9 () 1.2

WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL FOR SHOPPING/ PERSONAL BUSINESS TRIPS.

1. Imagine that only BUS, WALK BICYCLE, and CAR (driver or passenger) were available for your most recent shopping/personal business trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. (If bus service was not available for your shopping/personal business trip, please rank the three remaining alternatives.)

<u>RANKED 1</u>	<u>RANKED 2</u>	<u>RANKED 3</u>	<u>RANKED 4</u>	<u>NO ANSWER</u>
8.2 () bus	29.1	23.1	23.1	16.5
59.8 () walk	18.4	11.7	6.6	3.5
7.3 () bicycle	27.7	26.3	32.6	6.3
23.7 () car (driver or passenger)	19.9	33.0	19.0	4.4

2. We would like to know how often you use each of the following means of travel for shopping/personal business trips from home. Place an X under your best estimate of the number of days you have used each means of travel during the last 30 days.

	<u>Did not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO ANSWER</u>
bus	() 28.5	() 33.6	() 15.8	() 7.3	() 4.4	() 7.9	2.5
walk	() 4.1	() 10.4	() 11.7	() 10.4	() 11.1	() 49.5	2.8
drive a car	() 33.8	() 20.3	() 13.6	() 10.4	() 5.1	() 9.8	7.0
passenger in car	() 30.4	() 41.4	() 9.8	() 6.0	() 1.3	() 3.2	7.9
bicycle	() 75.7	() 8.5	() 2.5	() 2.2	() 1.3	() 2.5	7.3
other _____ (specify)	() -	() 4.4	() 1.6	() 0.9	() 1.3	() 1.3	-

3. Assume that on your next shopping/personal business trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below. (If bus service is not available for your Shopping/personal business trip, please rank the three remaining alternatives.)

<u>Ranked</u>		(a) \$1.00 Per Gallon		(b) \$1.50 Per Gallon		(c) \$3.00 Per Gallon		(d) \$4.00 Or More Per Gallon	
<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>
57.6	18.7	walk	() 60.1 17.4	walk	() 62.1 19.0	walk	() 62.7 19.3	waik	()
7.6	24.7	bicycle	() 8.9 26.9	bicycle	() 11.7 32.3	bicycle	() 13.0 34.1	bicycle	()
10.8	28.8	bus	() 13.9 27.8	bus	() 17.4 27.5	bus	() 16.1 27.8	bus	()
21.2	17.1	car	() 14.2 16.8	car	() 7.3 4.9	car	() 5.4 7.9	car	()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU.
PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU SHOP OR DO
PERSONAL BUSINESS BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 4 MILES OR LESS.

1. If you were to ride your bicycle to your shopping/personal business destination, what is your best estimate of the time you would spend doing the following?

getting the bicycle to the street 3.8 (minutes)

riding the bicycle 11.0 (minutes)

parking and locking up the bicycle 3.5 (minutes)

walking from bicycle to destination 2.0 (minutes)

TOTAL TIME FROM HOME TO DESTINATION 20.5 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to your shopping/personal business destination.

1.3 (%) bicycle path (off the street)

2.2 () bicycle lane (on the street)

73.4 () neither

10.4 () don't know

12.7 % of trips were more than 4 miles

3. What portion of your total trip from home to your shopping/personal business destination is served by bicycle paths or bicycle lanes?

74.7 () none

2.2 () less than 1/4 the distance

0.3 () 1/4 to 1/2 the distance

- () 1/2 to 3/4 the distance

0.3 () more than 3/4 of the distance

9.8 () don't know

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 2 MILES OR LESS.

4. If you were to walk to shopping/personal business, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at shopping/personal business destination?

16.5 (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to your shopping/personal business destination?

84.8 (%) all or almost all the way

1.9 () part of the way

0.9 () there are none

1.6 () don't know

10.8 percent of trips are more than 2 miles

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop	<u>4.2</u> (minutes)
waiting for the bus	<u>12.2</u> (minutes)
riding on the bus	<u>12.2</u> (minutes)
walking from bus to destination	<u>3.7</u> (minutes)
TOTAL TIME FROM HOME TO DESTINATION	<u>31.2</u> (minutes)

(Averages)

7. Is it necessary to change buses to travel from your home to your shopping/personal business destination?

9.5 () Yes

71.6 () No

0.9 Don't know

Bus service not available : 18.0%

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to your shopping/personal business destination?

7.0 times out of ten (mean)

9. What is the one-way bus fare on your trip from home to your shopping/personal business destination?

0.44 cents (mean) () don't know

10. If you were to go by car to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

walking to the car	<u>4.3</u> (minutes)
driving or riding	<u>9.6</u> (minutes)
parking the car	<u>6.9</u> (minutes)
walking from car to destination	<u>4.1</u> (minutes)
TOTAL TIME FROM HOME TO DESTINATION	<u>24.9</u> (minutes)

(Mean values)

11. What is the parking cost on your trip from home to your shopping/personal business destination?

(CHECK ONE AND SPECIFY THE COST.)

() no charge

() daily charge 2.31 (dollars)

() weekly charge - (dollars)

() monthly charge - (dollars)

Mean

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

48.7 (%) Yes

51.3 () No (IF "NO", GO TO NEXT PAGE.)

2. Did you ride a bicycle during the last month?

23.4 () Yes

(51.3% did not ride in past year)

15.3 () No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h" below) during the last 30 days.

	<u>Did Not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO ANSWER</u>
a. To work	18.7 ()	0.3 ()	1.3 ()	1.6 ()	0.6 ()	0.3 ()	0.6
b. To school	16.8 ()	1.3 ()	0.3 ()	0.6 ()	0.6 ()	0.3 ()	3.5
c. For personal business	7.3 ()	8.2 ()	2.8 ()	2.8 ()	1.3 ()	0.3 ()	0.6
d. To visit friends	8.5 ()	9.5 ()	2.2 ()	1.6 ()	- ()	0.6 ()	0.9
e. To go shopping	10.4 ()	7.3 ()	3.2 ()	1.3 ()	- ()	0.9 ()	0.3
f. To a recreational activity	6.0 ()	10.8 ()	3.5 ()	0.6 ()	1.6 ()	0.9 ()	-
g. Neighborhood riding	4.7 ()	10.8 ()	3.8 ()	1.6 ()	0.9 ()	1.6 ()	-
h. Long distance riding (over 2 hours)	15.5 ()	6.3 ()	0.9 ()	- ()	- ()	0.3 ()	0.3

(76.6% did not use bike in last month)

is your selected shopping or personal business destination located less than 4 miles away from your home?

86.6%) Yes

If your answer is YES, please read below.

13.4%) No

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right-hand side of the road marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for better riding. In addition, high-intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high activity areas, these consist of enclosed storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made freely available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to your shopping or personal business destination assuming the bicycle facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination using the facility improvements described on the previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Bicycling to this shopping/personal bus. destination would be pleasant because I could enjoy the scenery and surroundings.	() 39.8	() 25.7	() 11.8	() 0.7	() 0.7	
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when riding a bicycle	22.1 ()	57.5 ()	8.8 ()	15.4 ()	1.5 ()	0.7
3. I could pick up and go anytime I like when I ride a bicycle on shopping or on personal business trips.	26.5 ()	55.1 ()	6.6 ()	8.8 ()	1.5 ()	1.5
4. Riding a bicycle to this shopping/personal business destination would be tiring.	0.7 ()	15.4 ()	31.3 ()	50.1 ()	11.0 ()	1.5
5. Riding a bicycle to my shopping/personal business destination would be dangerous because of the heavy traffic.	4.4 ()	20.6 ()	14.0 ()	47.7 ()	11.8 ()	1.5
6. When on my shopping/personal business trip with children, I would find it convenient to ride the bicycle.	3.7 ()	14.6 ()	25.7 ()	41.9 ()	12.5 ()	2.2
7. I could not rely on riding a bicycle in rainy weather.	13.2 ()	50.9 ()	15.4 ()	17.6 ()	2.2 ()	0.7
8. I could easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	4.6 ()	12.7 ()	11.0 ()	51.5 ()	18.5 ()	1.7
9. It would be uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	2.3 ()	3.5 ()	12.9 ()	63.6 ()	11.0 ()	1.7
10. I could get to my shopping/personal business destination quickly when I ride a bicycle.	4.0 ()	47.5 ()	17.3 ()	26.0 ()	2.9 ()	2.3
11. I would worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	1.5 ()	14.0 ()	20.6 ()	52.9 ()	10.3 ()	0.7
12. I would worry about being injured in an accident when I ride a bicycle to my shopping/personal bus. destination.	1.5 ()	19.1 ()	23.5 ()	48.6 ()	6.6 ()	0.7
13. It would be relaxing to ride by bicycle to my shopping/personal business destination.	13.2 ()	41.3 ()	23.5 ()	19.1 ()	0.7 ()	2.2
14. I would dislike bicycling to this shopping/personal bus. destination because of many delays at intersections.	0.7 ()	19.9 ()	20.6 ()	49.2 ()	8.1 ()	1.5
15. Bicycling to this shopping/personal bus. destination would be unsafe due to lack of bike paths separated from motor traffic.	2.2 ()	22.8 ()	14.7 ()	41.9 ()	16.9 ()	1.5
16. Bicycling to this shopping/personal business destination would be dangerous because motorists are inconsiderate of bikers.	4.4 ()	22.1 ()	26.5 ()	33.0 ()	12.5 ()	1.5
17. When bicycling to this destination, I would worry about perspiring or soiling my clothes.	1.5 ()	15.4 ()	22.8 ()	44.9 ()	14.7 ()	0.7
18. Riding a bicycle would give healthful exercise.	46.3 ()	47.8 ()	3.7 ()	0.7 ()	- ()	1.5
19. Parking, locking and unlocking my bicycle would be no trouble.	17.6 ()	54.5 ()	14.0 ()	11.0 ()	2.2 ()	0.7
20. I would worry about my bicycle being stolen at this shopping/personal business destination.	2.9 ()	23.5 ()	24.3 ()	39.8 ()	8.8 ()	0.7
21. It would be inexpensive to buy and operate a bicycle.	21.3 ()	57.4 ()	9.6 ()	11.0 ()	- ()	0.7

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Please repeat the process for each statement (a) through (c) below. *(If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)*

- a. Assume the bicycle facilities are in place. Please rank the following means of travel for your next shopping or personal business trip to the same destination.

<u>RANK 1</u>	<u>RANK 2</u>		<u>RANK 3</u>	<u>RANK 4</u>	<u>NO. ANS.</u>
29.0	40.5	() bicycle with improved facilities	14.7	17.6	2.2
57.4	28.7	() walk	8.1	5.1	0.7
59	14.0	() bus/transit	40.4	28.7	11.0
11.0	14.7	() car (driver or passenger)	34.6	36.8	2.9

- b. Now assume the same condition as (a) above, except that the price of gasoline has increased to \$1.50 per gallon *(please rank again)*.

29.0	41.2	() bicycle with improved facilities	14.7	14.7	4.4
58.1	30.1	() walk	5.9	3.7	2.2
8.1	11.8	() bus/transit	46.3	21.3	12.5
7.4	13.2	() car (driver or passenger)	28.7	47.0	3.7

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon *(please rank again)*.

27.2	43.3	() bicycle with improved facilities	11.8	14.0	3.7
58.9	30.1	() walk	5.1	3.7	2.2
9.6	12.5	() bus/transit	53.6	11.8	12.5
3.7	10.3	() car (driver or passenger)	25.0	57.3	3.7

2. If only the alternatives listed below were available for your next 10 shopping or personal business trips, how many of the 10 trips would you make using each alternative? *(Write the number of trips in the box next to each alternative.)*

2.6 () bicycle with improved facilities

4.7 () walk

1.3 () bus/transit

1.4 () car (driver or passenger)

(10) TOTAL TRIPS

(Mean Values)

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion, and costly street and highway expenditures. It has been suggested that in order to reduce these problems, people must live nearer to their places of employment, shopping, school, and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six-block (1/2 mile) distance and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to all shopping and personal business destinations without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available; and there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS, or CAR for your shopping or personal business trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statement:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
I would like to live in this type of community.	35.0(%)	40.9()	8.9()	10.8()	2.5()	1.9

2. Please indicate your preference for each of the following transportation alternatives on your shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. (Please repeat the process for each statement (a) through (d) below)

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next shopping or personal business trip, and assume further that your trip is approximately 1/2 mile (6 blocks) in length. (Please rank the following means of transportation.)

	1	2	3	4		1	2	3	4
() walk	72.6	17.2	1.9	1.3	() bus or transit	1.9	14.0	46.5	24.2
() bicycle	19.1	48.5	7.6	14.0	() car (driver or passenger)	2.5	8.9	31.8	46.6

- b. Now suppose that in addition to the conditions described in (a) above the price of gasoline increased to \$1.50 per gallon. (Please rank the following means of transportation.)

() walk	71.5	17.8	2.5	0.6	() bus or transit	3.8	14.0	52.9	16.6
() bicycle	19.1	44.1	7.6	13.4	() car (driver or passenger)	1.3	7.6	24.8	55.5

- c. Assume the conditions described in (a) above and assume that in addition the speed limit was reduced to 15 m.p.h. in the community. (Please rank the following means of transportation.)

() walk	70.8	18.5	2.5	0.6	() bus or transit	3.2	14.6	54.9	14.6
() bicycle	19.1	49.7	7.0	12.7	() car (driver or passenger)	1.9	5.7	23.6	58.0

- d. Assume again conditions described in (a) above but this time assume no parking was available at your shopping or personal business destination. (Please rank the following means of transportation.)

() walk	75.2	14.6	1.3	0.6	() bus or transit	5.7	21.0	59.3	3.2
() bicycle	14.0	49.7	15.3	8.9	() car (driver or passenger)	0.6	2.5	11.5	72.7

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. AS YOU RECALL, YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 40.3 ^{Mean} (age)
2. What is your sex? 42.7 % () Male 57.0 () Female NO ANS. 0.3 %
3. How many adults (18 or over), including yourself, are there in your household? 1.8 Mean
4. How many minors (under 18) are there in your household? 0.6 Mean
5. Do you have a valid driver's license? 84.8 % () Yes 14.9 () No NO ANS. = 0.3 %
6. How many licensed drivers (including yourself) are there in your household? 1.6 mean
7. How many automobiles are there in your household? 0.7 mean
8. Do you own a bicycle? 46.2 % () Yes 53.5 () No NO ANS = 0.3 %
9. How many bicycles are there in your household? 1.1 mean
10. What type of structure do you live in?

<u>16.8</u> () single family	<u>4.7</u> () low-rise apartment (4 to 8 stories)
<u>2.8</u> () duplex	<u>24.1</u> () high-rise apartment (more than 8 stories)
<u>33.9</u> () townhouse	<u>-</u> () other _____
<u>17.4</u> () walk-up apartment (3 stories or less)	<u>0.3</u> NO ANS. (please specify)
11. What is your educational background? (CHECK ONE)

<u>0.9</u> (%) completed elementary school	<u>28.8</u> () college or technical school graduate
<u>3.2</u> () some high school	<u>15.5</u> () some graduate school
<u>6.6</u> () high school graduate	<u>28.9</u> () completed graduate degree(s)
<u>15.8</u> () some college or technical school	<u>0.3</u> NO ANS.
12. Please indicate your work group below:

<u>50.3</u> () work 5 or more days a week	<u>7.3</u> () work 1-2 days a week
<u>6.6</u> () work 3-4 days a week	<u>32.0</u> () presently not employed
	<u>3.8</u> NO ANS.

13. What is your occupation? (CHECK ONE)
- | | | |
|---------------------------------|--------------------------------------|----------------|
| 46.3 (% professional-technical | 7.0 () student | NO ANS. = 3,82 |
| 11.7 () managerial | 3.5 () sales worker | |
| 2.8 () blue collar | 4.4 () secretarial-clerical-cashier | |
| 8.2 () housewife | 5.7 () other _____ | |
| | 6.6 not employed (please specify) | |
14. How many workers are in your household? 1.4 (mean)

NO ANS. = 3,92

15. Please check the category which includes your approximate family income before taxes.
- | | |
|-----------------------------|------------------------------|
| 4.7 (%) \$5,000 and under | 6.0 () \$15,001 - \$17,500 |
| 4.4 () \$5,001 - \$7,500 | 7.6 () \$17,501 - \$20,000 |
| 4.1 () \$7,501 - \$10,000 | 10.4 () \$20,001 - \$25,000 |
| 4.7 () \$10,001 - \$12,500 | 27.0 () \$25,001 - \$50,000 |
| 5.7 () \$12,501 - \$15,000 | 16.5 () Over \$50,000 |

MEAN: \$ 29,970

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

206

Is your shopping or personal business destination located less than 2 miles from your home?

84.9 (%) Yes

15. / () No

If your answer is YES, please read below.

If your answer is NO, please go to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrianways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass median. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High-intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches, and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to your shopping or personal business destination, assuming the facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to your shopping or personal business destination using the facility improvements described on the previous page, even if you did not walk there on your last trip.

	<u>Strongly Agree</u>	<u>Agree</u>	<u>Neither Agree Nor Disagree</u>	<u>Disagree</u>	<u>Strongly Disagree</u>
1. Walking to a shopping/personal business destination would be pleasant because I could enjoy the scenery and surroundings.	()	()	()	()	()
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when walking.	()	()	()	()	()
3. I could pick up and go anytime I like when I walk to go shopping or on personal business trips.	()	()	()	()	()
4. Walking to this shopping/personal business destination would be tiring.	()	()	()	()	()
5. Walking to my shopping/personal business destination would be dangerous because of the heavy traffic.	()	()	()	()	()
6. When on a shopping/personal business trip with children, it would be inconvenient to walk.	()	()	()	()	()
7. I could not rely on walking to this destination in rainy weather.	()	()	()	()	()
8. I could easily carry packages when I walk while I am on a shopping/personal business trip.	()	()	()	()	()
9. It would be uncomfortable to walk to this destination because of rough or bumpy walking surfaces.	()	()	()	()	()
10. I could get to my shopping/personal business destination quickly when I walk.	()	()	()	()	()
11. I would worry about being mugged or assaulted when I walk to my shopping/personal business destination.	()	()	()	()	()
12. I would worry about being injured in an accident when I walk to my shopping/personal business destination.	()	()	()	()	()
13. It would be relaxing to walk to my shopping/personal business destination.	()	()	()	()	()
14. I would dislike walking to this destination because of the many delays at intersections.	()	()	()	()	()
15. Walking to my destination would be unsafe because of the lack of pathways that are separated from motorized traffic.	()	()	()	()	()
16. Walking to a shopping/personal business destination would be dangerous because motorists are inconsiderate of pedestrians.	()	()	()	()	()
17. When walking to this destination I would worry about perspiring or soiling my clothes.	()	()	()	()	()
18. Walking would give healthful exercise.	()	()	()	()	()

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat the process for each statement (a) through (c) below. *(If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)*

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next shopping or personal business trip.

RANK 1		RANK 2	RANK 3	RANK 4	NO ANS
76.3	() walk with improved facilities	13.3	5.9	1.5	3.0
10.4	() bicycle	30.4	22.2	31.8	5.2
5.9	() bus/transit	28.1	30.4	23.7	11.9
7.4	() car (driver or passenger)	23.0	36.3	28.9	4.4

- b. Now assume the same condition (a) above except that the price of gasoline has increased to \$1.50 per gallon. *(Please rank again.)*

76.3	() walk with improved facilities	13.3	5.2	2.2	3.0
9.6	() bicycle	34.9	22.2	28.1	5.2
7.4	() bus/transit	32.6	34.0	14.1	11.9
5.9	() car (driver or passenger)	14.1	33.3	41.5	5.2

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. *(Please rank.)*

79.3	() walk with improved facilities	13.3	3.7	0.7	3.0
10.4	() bicycle	39.3	22.2	22.2	5.9
8.1	() bus/transit	34.1	37.0	6.9	11.9
1.5	() car (driver or passenger)	8.1	31.1	53.4	5.9

2. If only the alternatives listed below are available for your next ten shopping or personal business trips, how many of the ten trips would you make using each alternative? *(Write the number of trips in the box next to each alternative.)*

- 6.3 () walk with improved facilities
 6.9 () bicycle
 1.3 () bus/transit
 1.4 () car (driver or passenger)

(10) TOTAL TRIPS

YOU HAVE JUST READ AN ASSUMED REGULATION FOR CAR USAGE. IMAGINE THAT THIS SITUATION FOR CAR USAGE EXISTS FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
a. I believe that a congestion fee of two dollars per day is desirable.	9.4	(%) 15.7	() 11.3	() 28.3	() 31.5	38
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	3.5	() 5.0	() 7.5	() 41.0	() 39.0	4.4

2. Please indicate your preference for each of the following transportation alternatives for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" under your least preferred alternative. Please repeat this for each of the statements (a) through (c) below. (If bus service is not available for this shopping or personal business trip, please rank the remaining three alternatives only.)

- a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect.

Please rank the following means of transportation for your next shopping or personal business trip.

RANK 1		RANK 2	RANK 3	RANK 4	NO ANS.
67.3	() walk	13.8	6.3	6.3	6.3
7.5	() bicycle	32.8	26.4	20.1	13.2
13.8	() bus or transit	35.2	28.3	8.2	14.5
8.8	() car (driver or passenger)	10.1	26.4	44.6	10.1

- b. Assume that instead of \$2.00 the congestion fee increased to \$4.00 per day. (Please rank again.)

69.2	() walk	13.8	8.2	3.1	5.7
8.2	() bicycle	35.8	27.0	16.4	12.6
17.0	() bus or transit	34.0	28.9	6.3	13.8
3.1	() car (driver or passenger)	8.2	23.3	53.5	11.9

- c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

69.9	() walk	13.2	7.5	4.4	5.0
7.5	() bicycle	37.8	24.5	17.6	12.6
15.7	() bus or transit	34.6	29.6	6.3	13.8
4.4	() car (driver or passenger)	6.3	26.4	51.6	11.3

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to a \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

Please turn to the following page.



CITY OF PHILADELPHIA

PHILADELPHIA CITY PLANNING COMMISSION
13th Floor City Hall Annex
S. E. Cor., Juniper & Filbert St., Philadelphia, Pa. 191
MU 6-1776

WILLIAM L. RAFSKY, Chairman

JOHN C. MITKUS, Executive Director
G CRAIG SCHELTER, Deputy Executive Director

October 15, 1978

Dear Resident of Society Hill and of Rittenhouse:

The City of Philadelphia is cooperating in a U. S. Department of Transportation study aimed at determining what can be done to increase the level of walking and bicycling as means of travel. To accomplish this, a survey is being conducted to find out how you feel about walking and biking. The results of this survey will be helpful to those persons who are responsible for developing walking and bicycling programs and facilities.

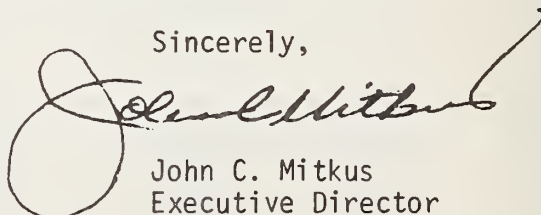
Your neighborhood has been carefully chosen along with four other sites across the United States, and your household has been selected at random from among the residents of your area. The number of people being asked to participate is small, so your answers are very important. Please do not put your name on the questionnaire. Your responses will be kept strictly confidential.

This questionnaire is concerned with your work trips only. We are interested in your opinion of the transportation services available to you between your home and your place of work. In addition, some questions about your age, sex, and family size have been included to help us understand how your answers can be related to your community. Although the questionnaire appears long, most people find it interesting to answer the questions. We hope you do, too.

Please take time in the next day or two to answer the questions completely. Your interviewer, a representative of Winona, Inc., will pick up the completed questionnaire and will answer any questions you may have, on the following prearranged date and time:

If you have any questions while filling out the questionnaire, please call this toll free number: 1--800--328-2933.

Sincerely,



John C. Mitkus
Executive Director

JCM:sm
Enc.

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME TO WORK.

1. What is the nearest interest intersection or street address of the place where you work?

(nearest intersection or street address)

(city)

2. Where is the place where you work located: *No Answer* 5.1%

85.1% () central city

9.7% () suburban

3. Specify the type of area where your work place is located. (CHECK ONE)

50.3% () central business district
(downtown of metropolitan area)

6.3% () industrial district

8.6% () neighborhood business district or
shopping center

6.6% () office park/professional building

0.3% () regional shopping center

13.8% () college campus or school

8.6% () other _____
(please specify)

4. Approximately how far is it from your home to your work place (one way)? *No Answer* 1.1%

5.4% () 2 blocks or less
($\frac{1}{2}$ mile or less)

9.4% () 2 to 4 miles

14.6% () 3 to 6 blocks
($\frac{1}{2}$ to $\frac{1}{2}$ mile)

2.7% () 4 to 6 miles

21.7% () $\frac{1}{2}$ to 1 mile

8.3% () 6 to 10 miles

23.5% () 1 to 2 miles

8.3% () over 10 miles

5. What was the date of your most recent trip to work?

month/day

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR MOST RECENT TRIP TO WORK WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent work trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For your travel to work we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never use it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to work by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending on how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under "agree", indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your trip to work varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful rating of all the statements on the next four pages are especially important to the success of this survey.

6. At approximately what time of day did you make this trip to work? *No Answer: 4.3%*

6.6% () before 7 a.m.

8.3% () 10 a.m. to 2 p.m.

24.0% () 7 a.m. to 8 a.m.

2.3% () 2 p.m. to 6 p.m.

42.0% () 8 a.m. to 9 a.m.

1.4% () after 6 p.m.

11.1% () 9 a.m. to 10 a.m.

7. How did you make your most recent trip to work? (CHECK ONE) *No Answer 3.7%*

35.4% () walked all the way

0.3% () motorcycle

24.0% () drove a car

4.3% () bicycle

5.1% () passenger in a car

0.3% () moped (motorized bicycle)

19.7% () bus

0.9% () taxi

6.3% () train or subway

— () other _____
(please specify)

7a. If you answered bus, train or subway above, how did you get to your bus or transit stop?

() bicycle

0.3% () drove and parked

0.6% () taxi

0.3% () passenger in a car

24.6% () walked

0.3% () other _____
(please specify)

8. Between the time you left home to go to work and the time you returned home, did you make any side trips that required you to travel more than one mile out of your way?

19.4% () yes

76.9% () no

9. Did anyone accompany you on your last work trip: (CHECK ONE) *No Answer: 4.6%*

78.3% () I traveled alone

3.4% () I was with two other persons

11.7% () I was with one other person

2.0% () I was with three or more persons

YOUR RATING OF WALK

Is your work place located less than 3 miles from your home?

72.0%) yes

28.0%) no

If your answer is YES, please rate the statements below concerning how you would feel about walking to work even if you did not walk on your last work trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO Answer
1. Walking to work is pleasant because I can enjoy the scenery and surroundings.	40.1%	37.3%	9.9%	8.7%	2.8%	4.2%
2. When walking, it is convenient to stop and do errands on my way to and from work.	38.5%	44.5%	7.1%	7.9%	0.3%	1.2%
3. I can pick up and go anytime I like when I walk to work.	37.7%	38.5%	12.7%	10.3%	1.6%	1.2%
4. Walking to work is tiring.	2.8%	12.3%	9.5%	44.8%	29.0%	1.6%
5. Walking to work is dangerous because of the heavy traffic.	2.0%	9.1%	12.3%	55.2%	19.8%	1.6%
6. When I walk to work I worry about being late.	2.4%	15.1%	12.7%	44.0%	24.2%	1.6%
7. I cannot rely on walking to work in rainy weather.	11.5%	31.0%	12.3%	32.9%	11.1%	1.2%
8. I can easily carry my briefcase or other packages when I walk to work.	12.7%	52.3%	12.7%	17.9%	3.2%	1.2%
9. It is uncomfortable to walk to work because of rough or bumpy walking surfaces.	2.8%	8.7%	10.3%	59.1%	17.9%	1.2%
10. I can get to work quickly when I walk.	21.8%	38.9%	10.7%	23.0%	4.4%	1.2%
11. I worry about being mugged or assaulted when I walk to work.	5.2%	12.3%	13.9%	45.2%	21.0%	2.4%
12. I worry about being injured in an accident if I walk to work.	0.8%	5.2%	13.9%	53.1%	25.4%	1.6%
13. It is relaxing to walk to work.	27.8%	49.6%	10.7%	9.1%	0.8%	2.0%
14. I dislike walking to work because of the many delays at intersections.	1.6%	6.7%	13.1%	54.0%	23.0%	1.6%
15. Walking to work is unsafe because of the lack of pathways that are separated from motorized traffic.	2.8%	9.5%	11.9%	52.8%	21.8%	1.2%
16. Walking to work is dangerous because motorists are inconsiderate of pedestrians.	9.9%	22.6%	19.8%	32.4%	9.1%	1.2%
17. When walking to work I worry about perspiring or soiling my clothes.	2.8%	11.5%	18.3%	52.3%	13.9%	1.2%
18. Walking to work gives healthful exercise.	51.5%	42.1%	4.4%	0.8%	—	1.2%

YOUR RATING OF CAR

When using a car, are you usually a:

69.4% () car driver?

30.6% () car passenger?

If you are usually a car driver, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about driving to work.

If you are usually a car passenger, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about going to work as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Traveling by car to work is pleasant because I can enjoy the scenery and surroundings.	6.0%	20.3%	27.9%	26.3%	14.6%	4.9%
2. When traveling by car, it is convenient to stop and do errands on my way to and from work.	7.1%	32.9%	8.3%	29.1%	17.7%	4.9%
3. I can pick up and go anytime I like when I travel by car to work.	15.4%	41.4%	9.4%	26.3%	8.9%	4.6%
4. Traveling by car to work is tiring.	5.7%	17.4%	17.7%	41.8%	13.1%	4.3%
5. Traveling by car to work is dangerous because of the heavy traffic.	4.9%	28.0%	23.7%	33.1%	5.4%	4.9%
6. When I go by car to work I worry about being late.	4.6%	22.9%	17.4%	40.8%	9.7%	4.6%
7. I cannot rely on traveling by car to work in rainy weather.	1.4%	8.0%	12.9%	52.8%	20.0%	4.9%
8. I can easily carry my briefcase or other packages when I travel by car to work.	33.7%	54.1%	3.1%	3.1%	1.1%	4.9%
9. It is uncomfortable to travel by car to work because of rough or bumpy road surfaces.	15.1%	20.3%	18.9%	40.0%	11.1%	4.6%
10. I can get to work quickly when I travel by car.	15.4%	40.6%	16.0%	18.0%	5.1%	4.9%
11. I worry about being mugged or assaulted when I travel by car to work.	1.1%	1.4%	8.3%	51.2%	33.4%	4.6%
12. I worry about being injured in an accident if I travel by car to work.	2.3%	15.1%	22.0%	40.6%	15.4%	4.6%
13. It is relaxing to travel by car to work.	7.1%	21.7%	23.4%	26.7%	16.0%	5.1%
14. I dislike traveling by car to work because of the many delays at intersections.	11.1%	38.3%	19.4%	22.3%	4.0%	4.9%
15. Parking the car at my place of work is expensive.	53.8%	26.6%	5.4%	15.7%	13.1%	5.4%
16. After parking the car, I must walk a long distance when I go to work.	2.6%	11.4%	12.3%	45.4%	23.4%	4.9%
17. I worry about the car being stolen or vandalized at work.	5.4%	20.9%	15.4%	38.3%	15.1%	4.9%
18. It is inexpensive to buy and operate a car.	7.7%	6.9%	3.4%	24.0%	53.1%	4.9%
19. Parking the car at work is no trouble.	12.0%	26.0%	8.6%	24.6%	23.4%	5.4%

YOUR RATING OF BICYCLE

Is your work place located less than 6 miles from your home?

78.0%) Yes

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to work even if you don't own a bicycle, or didn't ride a bicycle on your last trip to work.

22.0%) No

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree
1. Bicycling to work is pleasant because I can enjoy the scenery and surroundings.	16.1%	31.5%	18.7%	20.5%	8.8%
2. When biking, it is convenient to stop and do errands on my way to and from work.	9.2%	27.1%	17.9%	33.0%	8.8%
3. I can pick up and go anytime I like when I go to work by bicycle.	14.3%	49.0%	14.7%	15.4%	2.6%
4. Traveling to work by bicycle is tiring.	6.6%	18.3%	20.7%	38.8%	11.4%
5. Riding a bicycle to work is dangerous because of the heavy traffic.	37.4%	40.2%	9.2%	7.0%	1.8%
6. When I ride the bicycle to work I worry about being late.	3.3%	9.2%	27.8%	43.2%	11.7%
7. I cannot rely on riding a bicycle to work in rainy weather.	24.5%	59.0%	7.0%	4.4%	0.7%
8. I can easily carry my briefcase or other packages when I ride the bicycle to work.	4.4%	25.6%	11.7%	39.6%	14.3%
9. It is uncomfortable to travel to work by bicycle because of rough and bumpy riding surfaces.	11.0%	40.3%	18.7%	20.9%	5.1%
10. I can get to work quickly when I go by bicycle.	15.0%	45.4%	19.8%	11.4%	4.0%
11. I worry about being mugged or assaulted when I travel to work by bicycle.	3.7%	11.7%	20.5%	45.0%	14.3%
12. I worry about being injured in an accident if I ride the bicycle to work.	19.4%	40.2%	16.5%	15.8%	3.3%
13. It is relaxing to travel to work by bicycle.	5.1%	28.9%	23.1%	26.7%	11.4%
14. I dislike traveling to work by bicycle because of the many stops and delays at intersections.	5.9%	31.1%	26.0%	28.9%	3.3%
15. Riding the bicycle to work is unsafe because of the lack of bike paths that are separated from motorized traffic.	42.5%	39.9%	6.6%	6.2%	—
16. Going by bicycle to work is dangerous because motorists are inconsiderate of bicyclists.	40.9%	34.1%	13.6%	5.9%	1.1%
17. When bicycling to work I worry about perspiring or soiling my clothes.	12.5%	37.0%	20.5%	22.0%	2.9%
18. Riding a bicycle to work gives healthful exercise.	35.9%	51.7%	5.1%	1.8%	0.4%
19. Parking, locking and unlocking my bicycle at work is no trouble.	7.7%	29.3%	11.0%	32.6%	14.3%
20. After parking my bicycle I must walk a long distance when I go to work.	1.8%	2.9%	20.1%	48.4%	22.0%
21. I worry about my bicycle being stolen at work.	22.7%	35.6%	12.8%	16.8%	7.7%
22. It is inexpensive to buy and operate a bicycle.	23.8%	45.1%	12.1%	9.9%	4.4%

YOUR RATING OF BUS (or transit)

Is bus service available between your home and work place?

73.8% () yes

26.2% () no

If your answer is YES, please rate the statements below concerning how you would feel about going to work by bus even if you didn't choose bus on your last work trip.

If your answer is NO, please go on to the next page.

NO ANSWER

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Going to work by bus is pleasant because I can enjoy the scenery and surroundings.	3.7%	23.1%	25.1%	33.2%	13.9%	1.0%
2. When traveling by bus, it is inconvenient to stop and do errands on my way to and from work.	26.1%	41.3%	10.5%	16.6%	4.1%	1.4%
3. I must schedule my trips in advance when I travel by bus to work.	11.9%	38.6%	14.2%	29.2%	4.4%	1.7%
4. Traveling by bus to work is very tiring.	5.4%	18.3%	19.6%	46.1%	10.2%	1.4%
5. Traveling by bus to work is dangerous because of the heavy traffic.	1.4%	3.4%	15.3%	56.2%	22.0%	1.7%
6. When I take the bus to work I worry about being late.	11.5%	41.0%	14.2%	27.5%	4.4%	1.4%
7. I cannot rely on taking a bus to work in rainy weather.	6.4%	23.1%	15.6%	44.3%	9.2%	1.4%
8. I can easily carry my briefcase or other packages when I go to work by bus.	7.5%	51.1%	11.9%	22.0%	5.8%	1.7%
9. It is uncomfortable to travel to work by bus because of rough and bumpy road surfaces.	6.4%	23.4%	22.4%	39.3%	7.5%	1.0%
10. I can get to work quickly when I take the bus.	2.4%	28.1%	20.3%	35.3%	11.9%	2.0%
11. I worry about being mugged or assaulted when I go to work by bus.	4.7%	9.5%	12.2%	52.3%	16.6%	1.7%
12. I worry about being injured in an accident if I go to work by bus.	0.7%	2.4%	13.2%	59.3%	22.4%	2.0%
13. It is relaxing to go to work by bus.	4.4%	21.0%	28.5%	34.3%	10.8%	1.0%
14. I dislike traveling to work by bus because of the many stops and delays at intersections.	11.9%	38.0%	18.6%	27.1%	2.7%	1.7%
15. I must walk a long distance to get to and from the bus when I go to work.	2.7%	10.2%	9.2%	57.2%	19.3%	1.4%
16. There is generally a long wait involved when I go to work by bus.	11.5%	36.9%	19.7%	26.4%	4.1%	1.4%
17. When traveling by bus to work I worry about perspiring or soiling my clothes.	2.7%	14.9%	15.9%	51.9%	13.2%	1.4%
18. It is inexpensive to travel by bus to work.	6.8%	38.9%	12.4%	34.6%	5.8%	1.0%

WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL TO WORK.

1. Imagine that only BUS, WALK, BICYCLE, and CAR (driver or passenger) were available for your most recent work trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative.

(If bus service was not available for your work trip, please rank the three remaining alternatives.)

Ranked #1		#2	#3	#4	NO ANSWER
10.3%	() bus	31.1%	19.7%	16.0%	22.9%
43.9%	() walk	15.4%	19.0%	15.7%	7.1%
9.4%	() bicycle	27.1%	28.7%	25.1%	9.7%
33.7%	() car (driver or passenger)	16.6%	23.7%	18.9%	6.9%

2. We would like to know how often you use each of the following means of travel for work trips from home. Place an "X" under your best estimate of the number of days you have used each means of travel during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
bus	39.3% ()	18.6% ()	6.9% ()	6.6% ()	6.3% ()	10.0% ()	12.3%
walk	30.3% ()	14.9% ()	4.0% ()	6.0% ()	5.4% ()	29.4% ()	10.0%
drive a car	40.3% ()	15.7% ()	3.4% ()	5.7% ()	5.4% ()	16.6% ()	12.9%
passenger in a car	54.8% ()	18.6% ()	3.4% ()	2.0% ()	2.0% ()	2.9% ()	16.3%
bicycle	71.4% ()	4.0% ()	1.4% ()	2.0% ()	0.6% ()	2.3% ()	71.4%
other _____ (specify)	— ()	5.1% ()	0.6% ()	1.1% ()	0.9% ()	2.9% ()	89.4%

3. Assume that on your next work trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below.

(If bus service is not available for your work trip, please rank the three remaining alternatives.)

Ranked		(a) \$1.00 Per Gallon	(b) \$1.50 Per Gallon	(c) \$3.00 Per Gallon	(d) \$4.00 Or More Per Gallon
1st	2nd	1, 2	1, 2	1, 2	1, 2
47.7%, 12.6%	walk ()	42.9%, 13.4%	walk ()	46.2%, 14.3%	walk ()
10.3%, 28.3%	bicycle ()	10.9%, 31.1%	bicycle ()	11.4%, 32.9%	bicycle ()
14.0%, 31.1%	bus ()	17.1%, 27.5%	bus ()	22.0%, 25.7%	bus ()
28.0%, 12.0%	car ()	22.6%, 10.4%	car ()	13.4%, 10.9%	car ()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU. PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU WORK BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO WORK IS 6 MILES OR LESS.

1. If you were to ride your bicycle to work, what is your best estimate of the time you would spend doing each of the following?

getting the bicycle to the street 3:44 (minutes)

riding the bicycle 14.72 (minutes)

parking and locking up the bicycle 3.92 (minutes)

walking from bicycle to school 2.06 (minutes)

TOTAL TIME FROM HOME TO WORK 24.25 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to work?

1.19% () bicycle path (off the street)

0.39% () bicycle lane (on the street)

68.59% () neither

7.49% () don't know

3. What portion of your total trip from home to work is served by bicycle paths or bicycle lanes?

70.59% () none

0.99% () less than 1/4 the distance

0.39% () 1/4 to 1/2 the distance

0.99% () 1/2 to 3/4 the distance

— () more than 3/4 of the distance

5.79% () don't know

ANSWER IF DISTANCE FROM HOME TO WORK IS 3 MILES OR LESS.

4. If you were to walk to work, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at work? — (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to work?

68.39% () all or almost all the way

2.39% () part of the way

1.19% () there are none

0.99% () don't know

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to work, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop	<u>4.99</u> (minutes)
waiting for the bus	<u>10.25</u> (minutes)
riding on the bus	<u>14.90</u> (minutes)
walking from bus to work	<u>4.44</u> (minutes)
TOTAL TIME FROM HOME TO WORK	<u>33.49</u> (minutes)

7. Is it necessary to change buses to travel from your home to work?

21.7% () Yes

63.7% () No

0.3% DON'T KNOW

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to work?

6.87 times out of ten

9. What is the one-way bus fare on your trip from home to work?

48 cents

() don't know

10. If you were to go by car to work, what is your best estimate of the time you would spend doing each of the following?

walking to the car	<u>1.28</u> (minutes)
driving or riding	<u>22.47</u> (minutes)
parking the car	<u>1.74</u> (minutes)
walking from car to work	<u>2.03</u> (minutes)
TOTAL TIME FROM HOME TO WORK	<u>27.75</u> (minutes)

11. What is the parking cost on your trip from home to work? (CHECK ONE AND SPECIFY THE COST.)

30.3% () no charge

45.7% () daily charge 2.48 (dollars)

0.3% () weekly charge _____ (dollars)

11.4% () monthly charge _____ (dollars)

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year? *No Answer . 0.3%*

51.1% () Yes

48.6% () No (IF "NO", GO TO THE NEXT PAGE.)

2. Did you ride a bicycle during the last 30 days?

27.1% () Yes

24.0% () No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h") during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	<i>No ANSWER</i>
a. To work	<i>17.1%</i> ()	<i>4.3%</i> ()	<i>0.9%</i> ()	<i>1.7%</i> ()	<i>1.1%</i> ()	<i>1.7%</i> ()	<i>0.3%</i>
b. To school	<i>22%</i> ()	<i>1.1%</i> ()	— ()	— ()	<i>0.3%</i> ()	<i>1.1%</i> ()	<i>2.6%</i>
c. For personal business	<i>11.1%</i> ()	<i>9.1%</i> ()	<i>2.6%</i> ()	<i>2.0%</i> ()	<i>1.4%</i> ()	<i>0.9%</i> ()	—
d. To visit friends	<i>11.1%</i> ()	<i>11.1%</i> ()	<i>2.3%</i> ()	<i>0.6%</i> ()	<i>0.3%</i> ()	<i>1.1%</i> ()	<i>0.6%</i>
e. To go shopping	<i>14.0%</i> ()	<i>8.1%</i> ()	<i>1.7%</i> ()	<i>1.1%</i> ()	<i>0.6%</i> ()	<i>0.6%</i> ()	<i>0.3%</i>
f. To a recreational activity	<i>6.3%</i> ()	<i>10.9%</i> ()	<i>5.4%</i> ()	<i>1.7%</i> ()	<i>0.9%</i> ()	<i>1.7%</i> ()	<i>0.3%</i>
g. Neighborhood riding	<i>3.7%</i> ()	<i>13.1%</i> ()	<i>4.9%</i> ()	<i>1.4%</i> ()	<i>1.7%</i> ()	<i>1.7%</i> ()	<i>0.6%</i>
h. Long distance riding (over 2 hours)	<i>17.4%</i> ()	<i>8.0%</i> ()	<i>0.3%</i> ()	<i>0.6%</i> ()	<i>0.3%</i> ()	<i>0.6%</i> ()	—

Is your work place located less than 6 miles away from your home?

78.8% () Yes

21.2% () No

If your answer is YES, please read below.

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO WORK USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right hand side of the road, marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for a better ride. In addition, high intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high employment centers, these consist of enclosed free storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to work, assuming the bicycle facility improvements described above are available to you on your next work trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to work using the facility improvements described on your previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Bicycling to work would be pleasant because I could enjoy the scenery and surroundings.	30.3%	35.5%	15.8%	9.2%	3.3%	5.9%
2. When biking, it would be convenient to stop and do errands on my way to and from work.	19.7%	43.5%	9.9%	17.1%	3.9%	5.9%
3. I could pick up and go anytime I like when I go to work by bicycle.	23.0%	48.7%	8.6%	12.5%	1.3%	5.9%
4. Traveling to work by bicycle would be tiring.	3.9%	14.5%	15.8%	46.0%	14.5%	5.3%
5. Riding a bicycle to work would be dangerous because of the heavy traffic.	6.6%	14.5%	10.5%	45.4%	17.1%	5.9%
6. If I rode the bicycle to work, I would worry about being late.	3.3%	5.9%	15.8%	50.0%	19.1%	5.9%
7. I could not rely on riding a bicycle to work in rainy weather.	22.4%	53.2%	6.6%	8.6%	2.6%	6.6%
8. I could easily carry my briefcase or other packages when I ride the bicycle to work.	5.3%	32.2%	13.8%	32.9%	9.9%	5.9%
9. It would be uncomfortable to travel to work by bicycle because of rough and bumpy surfaces.	2.6%	9.2%	10.5%	54.0%	17.8%	5.9%
10. I could get to work quickly when I go by bicycle.	21.7%	47.3%	13.8%	8.6%	2.0%	6.6%
11. I would worry about being mugged or assaulted when I travel to work by bicycle.	3.9%	10.5%	11.8%	53.4%	14.5%	5.9%
12. I would worry about being injured in an accident if I ride the bicycle to work.	3.3%	16.4%	13.2%	46.1%	15.1%	5.9%
13. It would be relaxing to travel to work by bicycle.	15.1%	42.8%	21.1%	11.2%	2.6%	7.2%
14. I would dislike traveling to work by bicycle because of the many stops and delays at intersections.	2.6%	21.1%	18.4%	41.4%	9.9%	6.6%
15. Riding the bicycle to work would be unsafe because of lack of bike paths that are separated from motor traffic.	5.3%	12.5%	5.9%	46.7%	20.4%	9.2%
16. Going by bicycle to work would be dangerous because motorists are inconsiderate of bicyclists.	8.6%	20.4%	9.9%	38.1%	16.4%	6.6%
17. When bicycling to work I would worry about perspiring or soiling my clothes.	5.3%	28.3%	18.4%	35.5%	6.6%	5.9%
18. Riding a bicycle to work would give healthful exercise.	41.4%	48.1%	2.6%	0.7%	—	7.2%
19. Parking, locking and unlocking my bicycle at work would be no trouble.	19.7%	45.4%	7.9%	14.5%	5.3%	7.2%
20. After parking my bicycle I would have to walk a long distance when I go to work.	1.3%	2.0%	9.9%	56.6%	23.0%	7.2%
21. I would worry about my bicycle being stolen at work.	9.2%	16.4%	9.2%	43.5%	15.1%	6.6%
22. It would be inexpensive to buy and operate a bicycle.	25.0%	42.8%	9.2%	11.2%	5.9%	5.9%

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and your place of work, rank the three remaining alternatives only.)

- a. Assume the bicycle facilities are in place. please rank the following means of travel for your next trip to work.

Rank #1		#2	#3	#4	No Answer
21.7%	() bicycle with improved facilities	35.5%	15.1%	17.8%	9.9%
46.7%	() walk	13.8%	14.5%	15.8%	9.2%
7.9%	() bus/transit	27.0%	36.1%	14.5%	14.5%
19.1%	() car (driver or passenger)	12.5%	22.4%	36.1%	9.9%

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$ 1.50 per gallon. (Please rank again.)

23.0%	() bicycle with improved facilities	35.6%	15.1%	16.4%	9.9%
45.4%	() walk	17.8%	13.8%	13.8%	9.2%
14.5%	() bus/transit	23.7%	37.4%	11.2%	13.2%
12.5%	() car (driver or passenger)	11.8%	21.7%	43.5%	10.5%

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

24.3%	() bicycle with improved facilities	39.5%	10.5%	14.5%	11.2%
48.6%	() walk	19.1%	13.8%	9.9%	8.6%
14.5%	() bus/transit	19.7%	44.7%	6.6%	14.5%
7.2%	() car (driver or passenger)	9.9%	17.8%	52.6%	12.5%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

53.2% = 0/10 trips () bicycle with improved facilities

28.2% = 0/10 trips () walk

55.1% = 0/10 trips () bus/transit

61.6% = 0/10 trips () car (driver or passenger)

6.6% = 10/10 " (10) TOTAL TRIPS

2.0

4.7

1.7

1.6

10.0

(Means)

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion and costly street and highway expenditures. It has been suggested that in order to reduce these problems people must live nearer to their places of employment, shopping, school and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six block ($\frac{1}{2}$ mile) distance, and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to work without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available to work places; there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS or CAR for your work trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statement:

I would like to live in this type of community. 34.7% () Strongly Agree 34.7% () Agree 11.4% () Neither Agree nor Disagree 7.8% () Disagree 5.2% () Strongly Disagree 2.1% ()

2. Please indicate your preference for each of the following transportation alternatives on your next trip to work, by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. Please repeat the process for each statement (a) through (d) below.

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next trip to work, and assume further that your trip to work is approximately one mile away. (Please rank the following means of transportation.)

Ranked #1		#2	#3	#4	NO ANSWER
60.1%	() walk	19.7%	6.7%	7.3%	6.2%
21.2%	() bicycle	39.9%	13.0%	15.5%	10.4%
6.7%	() bus or transit	21.8%	46.1%	15.0%	10.4%
8.3%	() car (driver or passenger)	7.8%	22.3%	50.2%	11.4%

- b. Now suppose that in addition to the conditions described in (a) above, the price of gasoline increased to \$1.50 per gallon. (Please rank again.)

58.6%	() walk	21.2%	7.8%	5.7%	6.7%
21.2%	() bicycle	41.9%	14.5%	13.0%	10.4%
9.8%	() bus or transit	20.7%	48.8%	10.9%	9.8%
6.7%	() car (driver or passenger)	6.2%	17.1%	58.6%	11.4%

- c. Assume the conditions described in (a) above and assume that in addition, the speed limit was reduced to 15 mph in the community. (Please rank.)

59.5%	() walk	19.7%	7.8%	5.7%	7.3%
22.3%	() bicycle	43.6%	11.9%	12.4%	9.8%
7.3%	() bus or transit	20.7%	50.2%	10.9%	10.9%
6.7%	() car (driver or passenger)	5.2%	17.6%	58.6%	11.9%

- d. Assume again the conditions described in (a) above but this time, assume no parking was available at your work place. (Please rank.)

61.6%	() walk	20.7%	7.3%	3.1%	7.3%
19.7%	() bicycle	42.5%	17.6%	8.3%	11.5%
10.4%	() bus or transit	22.3%	52.8%	3.1%	11.4%
3.6%	() car (driver or passenger)	2.6%	8.8%	72.0%	13.0%

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 37.7 (age) (*mean*)
2. What is your sex? 51.7%) Male 46.3%) Female
3. How many adults (18 or over) including yourself are there in your household? 1.8
4. How many minors (under 18) are there in your household? 0.4
5. Do you have a valid driver's license? 97.9%) Yes 1.8% () No *No Answer 2.3%*
6. How many licensed drivers (including yourself) are there in your household? 1.6
7. How many automobiles are there in your household? 1.0
8. Do you own a bicycle? 42.6%) Yes 56.0%) No
9. How many bicycles are there in your household? 1.0
10. What type of structure do you live in? *No Answer 1.4%*

<u>15.4%</u> () single family	<u>3.1%</u> () low rise apartment (4 to 8 stories)
<u>2.9%</u> () duplex	<u>24.3%</u> () high rise apartment (more than 8 stories)
<u>49.8%</u> () townhouse	<u>1.7%</u> () other <u> </u> (<i>please specify</i>)
<u>21.4%</u> () walk-up apartment (3 stories or less)	
11. What is your educational background? (*CHECK ONE*)

<u>0.3%</u> () completed elementary school	<u>27.7%</u> () college or technical school graduate
<u>1.7%</u> () some high school	<u>11.7%</u> () some graduate school
<u>6.6%</u> () high school graduate	<u>39.7%</u> () completed graduate degree(s)
<u>10.3%</u> () some college or technical school	
12. Please indicate your work group below: *No Answer 2.0%*

<u>85.2%</u> () work 5 or more days a week	<u>1.7%</u> () work 1-2 days a week
<u>9.4%</u> () work 3-4 days a week	<u>1.7%</u> () presently unemployed
13. What is your occupation? (*CHECK ONE*) *No Answer 1.7%*

<u>64.1%</u> () professional-technical	<u>3.4%</u> () sales worker
<u>15.7%</u> () managerial	<u>9.1%</u> () secretarial-clerical-cashier
<u>1.7%</u> () blue collar	<u>3.4%</u> () other <u> </u> (<i>please specify</i>)
	<u>0.9%</u> <i>Student</i>

14. Does your job require you to dress up? (CHECK ONE) No Answer 1.479

62.3% () usually 22.9% () sometimes 13.4% () not usually

15. How many workers including yourself are in your household? 7.6

16. Please check the category which includes your approximate family income before taxes.

1.170 () \$5,000 and under

572. () \$15,001 - \$17,500

2.0% () \$5,001 - \$7,500

2.92() \$17,501 - \$20,000

379. () \$7,501 - \$10,000

10.02% () \$20,001 - \$25,000

6.37() \$10,001 - \$12,500

30.62() \$25,001 - \$50,000

7.42, () \$12,501 - \$15,000

18.62() Over \$50,000

In the space below we would welcome any other comments you would like to make. Enclose additional pages if you like.

We would like to express our sincere thanks to you for completing this questionnaire.

Is your work place located less than 3 miles from your home?

3.9% Yes

26.1% No ()

If your answer is YES, please read below.

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO WORK USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrian ways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass medians. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to work, assuming the facility improvements described above are available to you on your next trip to work.

(You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to work using the facility improvements described on the previous page, even if you did not walk on your last trip to work.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Walking to work would be pleasant because I could enjoy the scenery and surroundings.	51.7%	41.4%	2.6%	0.9%	1.7%	1.7%
2. When walking, it would be convenient to stop and do errands on my way to and from work.	37.9%	45.8%	10.3%	3.4%	—	2.6
3. I could pick up and go anytime I like when I walk to work.	32.8%	50.8%	9.5%	4.3%	—	2.6
4. Walking to work would be tiring.	3.4%	2.6%	9.5%	48.3%	33.6%	2.6
5. Walking to work would be dangerous because of the heavy traffic.	1.7%	—	5.2%	63.0%	28.4%	1.7
6. If I walked to work I would worry about being late.	3.4%	9.5%	13.8%	51.8%	19.8%	1.7
7. I could not rely on walking to work in rainy weather.	6.1%	31.0%	38.8%	9.8%	1.7%	1.7
8. I could easily carry my briefcase or other packages when I walk to work.	12.9%	53.4%	2.8%	22.4%	0.9%	2.6
9. It would be uncomfortable to walk to work because of rough or bumpy walking surfaces.	1.7%	1.7%	3.4%	58.7%	31.7%	2.6
10. I could get to work quickly when I walk.	19.8%	44.8%	7.8%	20.7%	4.3%	2.6
11. I would worry about being mugged or assaulted when I walk to work.	3.4%	4.3%	6.9%	63.0%	18.1%	4.3
12. I would worry about being injured in an accident if I walk to work.	1.7%	0.9%	7.8%	61.1%	25.9%	2.6
13. It would be relaxing to walk to work.	37.9%	46.6%	7.8%	3.4%	0.9%	3.4
14. I would dislike walking to work because of the many delays at intersections.	0.9%	2.6%	10.3%	58.6%	25.0%	2.6
15. Walking to work would be unsafe because of the lack of pathways that are separated from motorized traffic.	0.9%	0.9%	5.2%	51.6%	32.8%	2.6
16. Walking to work would be dangerous because motorists are inconsiderate of pedestrians.	0.9%	9.5%	12.4%	52.5%	21.6%	2.6
17. When walking to work I would worry about perspiring or soiling my clothes.	2.6%	15.5%	12.9%	45.7%	20.7%	2.6
18. Walking to work would give healthful exercise.	47.5%	42.2%	4.3%	2.6%	—	3.4

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and work place, rank the three remaining alternatives only.)

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next trip to work.

Ranked #1		#2	#3	#4	^{1/3} ANSWER
63.9%	() walk with improved facilities	17.2%	11.2%	3.4%	4.3%
11.2%	() bicycle	34.5%	22.4%	25.0%	6.9%
10.3%	() bus/transit	30.1%	23.3%	21.6%	14.7%
11.2%	() car (driver or passenger)	11.2%	36.3%	35.3%	6.0%

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$1.50 per gallon. (Please rank again.)

65.6%	() walk with improved facilities	18.1%	8.6%	3.4%	4.3%
10.3%	() bicycle	35.4%	26.7%	20.7%	6.9%
12.9%	() bus/transit	31.1%	29.3%	13.8%	12.9%
8.6%	() car (driver or passenger)	8.6%	27.6%	46.6%	8.6%

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

66.4%	() walk with improved facilities	20.7%	6.9%	1.7%	4.3%
12.1%	() bicycle	43.1%	22.4%	15.5%	6.9%
12.9%	() bus/transit	26.7%	37.9%	8.6%	12.9%
6.0%	() car (driver or passenger)	2.6%	24.1%	58.7%	8.6%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

15.5% = 9/10 trips () walk with improved facilities
 68.1% = 9/10 trips () bicycle
 55.8% = 9/10 trips () bus/transit
 59.4% = 9/10 trips () car (driver or passenger)
 5.5% = 10/10 " (10) TOTAL TRIPS

5.9

1.1

1.7

1.3

10.0

(Means)

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1.00 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

PLEASE TURN TO THE FOLLOWING PAGE.

YOU HAVE JUST READ AN ASSUMED FEE ON AUTO USAGE. IMAGINE THAT THIS SITUATION EXISTS FOR YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO Answer
a. I believe that a congestion fee of two dollars per day is desirable.	16.6%	21.0%	9.6%	17.8%	30.5%	4.5%
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	1.3%	3.8%	10.8%	35.7%	42.7%	5.7%

2. Please indicate your preference for each of the following transportation alternatives for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat this for each of the statements (a) through (d) below.

(If bus service is not available for your work trip, please rank the three remaining alternatives below.)

a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect. Please

Ranked #1		#2	#3	#4	NO Answer
44.5%	() walk	18.5%	10.2%	17.8%	7.0%
9.9%	() bicycle	31.8%	33.8%	16.6%	8.9%
21.0%	() bus or transit	34.5%	24.2%	7.0%	12.7%
19.7%	() car (driver or passenger)	8.3%	21.7%	42.7%	7.6%

b. Assume that instead of \$2.00, the congestion fee increased to \$4.00 per day. (Please rank again.)

46.5%	() walk	19.1%	10.2%	15.9%	8.3%
10.2%	() bicycle	36.3%	31.8%	11.5%	10.2%
26.9%	() bus or transit	26.8%	29.2%	3.8%	13.4%
12.1%	() car (driver or passenger)	9.6%	17.2%	51.5%	9.6%

c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

46.6%	() walk	19.7%	8.9%	17.2%	7.6%
12.7%	() bicycle	33.1%	33.8%	11.5%	8.9%
21.7%	() bus or transit	31.8%	29.7%	5.1%	12.7%
15.3%	() car (driver or passenger)	7.6%	17.8%	49.7%	9.6%

d. Assume that the congestion fee of \$2.00 per day was in effect, and assume further that your employer allowed you to arrive before 7:00 a.m. and leave before 4:00 p.m., or to arrive after

9:00 a.m. and leave after 5:00 p.m. (Please rank.)

20.9%	() walk	16.6%	10.2%	19.7%	7.6%
10.2%	() bicycle	28.7%	36.3%	15.9%	8.9%
14.6%	() bus or transit	40.2%	21.7%	10.8%	2.7%
25.5%	() car (driver or passenger)	7.6%	21.7%	36.9%	8.3%

Shopping and Personal Business Trips

WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME FOR THE PURPOSE OF SHOPPING OR PERSONAL BUSINESS. PLEASE EXCLUDE ALL MAJOR GROCERY SHOPPING TRIPS.

1. What is the nearest intersection or street address of the place of your most recent shopping or personal business trip from home?

(nearest intersection or street address)

(city)

2. A list of specific shopping and personal business trip purposes is given below. Please check the one trip purpose that best describes your most recent shopping or personal business trip from home (exclude major grocery shopping trips). (CHECK ONE ONLY)

26.7 (%) Minor grocery shopping (one bag or less)	7.1 (%) eat meal	2.6 (%) other professional
17.5 () clothing/shoes	3.2 () post office	11.0 () bank
8.9 () drugs/bookstore	1.9 () library/museum	2.2 () laundry/dry cleaner/shoe repair
9.2 () hardware/flowerist/liquor	5.4 () medical/dental	2.8 () barber/beauty shop

NO ANSWER: 0.2 %

16.3 () other _____
(please specify)

3. Other than the above stop, did you make any additional stops on the way to and from your shopping/ personal business destination? (CHECK ONE)

43.5 () none (If you answered NONE, go to question 5.)

30.5 () one

15.7 () two

9.5 () three or more

0.8 NO ANSWER

4. Did any of the additional stops between your home and your primary shopping/personal business destination require you to travel more than one mile out of the way?

14.9 () Yes

40.8 () No NO ADDTL STOPS / NO ANSWER : 44.3

5. Approximately how far was it directly from your home to your primary shopping/personal business destination (one way)?

9.0 () 2 blocks ($\frac{1}{4}$ mile or less)

16.9 () 2 to 4 miles

20.4 () 3 to 6 blocks ($\frac{1}{2}$ to $\frac{3}{4}$ mile)

6.6 () 4 to 6 miles

20.9 () $\frac{1}{2}$ to 1 mile

2.8 () 6 to 10 miles

19.9 () 1 to 2 miles

3.1 () over 10 miles

0.4 NO ANSWER

6. How many separate parcels, bags or packages were you carrying? (CHECK ONE)

17.4 (%) none 39.9 () one 24.5 () two 17.8 () three or more 0.4 NO ANSWER

7. How many persons (other than yourself) were with you on this shopping or personal business trip?

total _____ (number)

Children 12 years of age and under _____ (number)

MEAN: 0.80

MEAN: 0.79

8. Where is this place where you went shopping or on personal business located?

53.3 () central city

44.6 () suburban

NO ANSWER: 2.0

9. Specify the type of area where you went on your shopping/personal business trip. (CHECK ONE)

17.5/2.1 () central business district (downtown metropolitan area) 39/9.2 () regional shopping center

23.1/30.0 () neighborhood business district or shopping center 21/1.7 () office park/professional building

4.1/1.0 () college campus

27/2.7 () other _____ (please specify)

0.4/0.4 NO ANSWER

10. What was the date of this most recent trip? VARIES _____ (month/day)

11. At approximately what time of day did you make this trip to your shopping/personal business destination?

5.6 () before 7 a.m.

() 10 a.m. to 2 p.m.

() 7 a.m. to 8 a.m.

31.9 () 2 p.m. to 6 p.m.

() 8 a.m. to 9 a.m.

12.1 () after 6 p.m.

50.2 () 9 a.m. to 10 a.m.

0.2 NO ANSWER

12. How did you make the trip to this shopping/personal business destination? (CHECK ONE)

20.6 () walked all the way

0.2 () motorcycle

59.3 () drove a car

2.7 () bicycle

9.2 () passenger in a car

0.3 () moped (motorized bicycle)

5.4 () bus

0.6 () taxi

0.5 () train, subway

0.6 () other _____ (please specify)

0.1 NO ANSWER

12a. If you used a bus or transit, how did you get to your bus or transit stop?

0.1 () bicycle

0.2 () drove and parked

- () taxi

- () passenger in a car

6.2 () walk

0.1 () other _____ (please specify)

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR
MOST RECENT SHOPPING OR PERSONAL BUSINESS TRIP WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent shopping or personal business trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For the above trip, we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never used it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to my shopping or personal business destination by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending upon how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree, you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under agree, indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your shopping or personal business trip varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear repetitious, we want to stress that your careful ratings of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF BUS (or transit)

Is bus service available between your home and this shopping or personal business destination?

622(%) Yes

378(%) No

If your answer is YES, please rate the statements below concerning how you would feel about going to this destination by bus even if you didn't choose bus on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS
1. Going to this destination by bus is pleasant because I can enjoy the scenery and surroundings.	4.7 ()	31.6 ()	33.3 ()	21.9 ()	7.4 ()	1.1
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by bus.	2.6 ()	12.4 ()	9.9 ()	52.9 ()	21.1 ()	1.1
3. I must schedule my trips in advance when I travel by bus to go shopping or on personal business trips.	15.7 ()	53.0 ()	12.1 ()	15.4 ()	2.5 ()	1.3
4. Traveling by bus to this shopping/personal business destination is tiring.	7.7 ()	27.0 ()	25.4 ()	33.8 ()	5.1 ()	1.0
5. Traveling by bus to my shopping/personal business destination is dangerous because of the heavy traffic.	1.0 ()	7.3 ()	20.0 ()	55.7 ()	14.6 ()	1.4
6. When on a shopping/personal business trip with children, it is inconvenient to take the bus.	10.9 ()	31.3 ()	25.8 ()	25.2 ()	3.9 ()	2.9
7. I cannot rely on taking a bus to this destination in rainy weather.	7.5 ()	27.1 ()	18.6 ()	38.8 ()	6.7 ()	1.3
8. I can easily carry packages when I travel by bus while I am on a shopping/personal business trip.	2.8 ()	34.5 ()	15.0 ()	36.2 ()	10.3 ()	1.2
9. It is uncomfortable to travel to this destination by bus because of rough or bumpy road surfaces.	3.0 ()	8.1 ()	26.2 ()	51.3 ()	10.3 ()	1.1
10. I can get to my shopping/personal business destination quickly when I travel by bus.	2.4 ()	20.6 ()	18.0 ()	42.2 ()	15.5 ()	1.3
11. I worry about being mugged or assaulted when I travel by bus to my shopping/personal business destination.	2.7 ()	9.0 ()	20.8 ()	52.8 ()	13.3 ()	1.4
12. I worry about being injured in an accident when I travel by bus to my shopping/personal business destination.	1.3 ()	4.2 ()	18.6 ()	58.9 ()	15.8 ()	1.2
13. It is relaxing to travel by bus to my shopping/personal business destination.	3.9 ()	30.0 ()	28.6 ()	28.8 ()	7.5 ()	1.2
14. I dislike traveling by bus to this shopping/personal bus destination because of the many delays at intersections.	8.1 ()	23.8 ()	27.3 ()	36.2 ()	3.4 ()	1.2
15. I must walk a long distance to get to and from the bus when I go to this shopping/personal business destination.	5.6 ()	21.2 ()	16.4 ()	47.7 ()	7.8 ()	1.3
16. There is generally a long wait involved when I travel by bus to this shopping/personal business destination.	15.7 ()	40.3 ()	22.4 ()	18.5 ()	2.2 ()	0.9
17. When traveling by bus to this shopping/personal business destination I worry about perspiring or soiling my clothes.	1.6 ()	7.5 ()	22.3 ()	54.6 ()	13.0 ()	1.0
18. It is inexpensive to travel by bus to this shopping/personal business location.	12.1 ()	48.7 ()	18.3 ()	15.0 ()	3.8 ()	1.1

YOUR RATING OF WALK

Was your most recent shopping or personal business destination located less than 2 miles from your home?

66.4 () Yes

33.6 () No

If your answer is YES, please rate the statements below concerning how you would feel about walking to this destination even if you did not walk there on your last trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No AN
1. Walking to this destination is pleasant because I can enjoy the scenery and surroundings.	18.9 (9%)	40.7 ()	20.1 ()	15.2 ()	4.7 ()	0.4
2. When shopping or on a personal business trip, it is convenient to stop and do errands when walking.	17.4 ()	46.4 ()	10.4 ()	19.9 ()	5.6 ()	0.3
3. I can pick up and go anytime I like when I walk to go shopping or on personal business trips.	21.3 ()	51.1 ()	9.0 ()	14.1 ()	4.1 ()	0.4
4. Walking to this shopping/personal business destination is tiring.	7.9 ()	25.0 ()	14.9 ()	39.8 ()	12.2 ()	0.2
5. Walking to my shopping/personal business destination is dangerous because of the heavy traffic.	7.3 ()	22.3 ()	15.9 ()	43.2 ()	10.8 ()	0.5
6. When on a shopping/personal business trip with children, it is inconvenient to walk.	14.1 ()	31.5 ()	24.5 ()	22.2 ()	5.4 ()	2.3
7. I cannot rely on walking to this destination in rainy weather.	19.2 ()	45.8 ()	8.1 ()	22.2 ()	4.2 ()	0.5
8. I can easily carry packages when I walk while I am on a shopping/personal business trip.	4.6 ()	33.5 ()	12.6 ()	37.4 ()	11.6 ()	0.3
9. It is uncomfortable to walk to this destination because of rough and bumpy walking surfaces.	3.8 ()	11.7 ()	14.3 ()	55.7 ()	14.1 ()	0.4
10. I can get to my shopping/personal business destination quickly when I walk.	9.0 ()	32.1 ()	14.4 ()	33.8 ()	10.5 ()	0.2
11. I worry about being mugged or assaulted when I walk to my shopping/personal business destination.	4.2 ()	13.3 ()	16.7 ()	49.4 ()	15.9 ()	0.5
12. I worry about being injured in an accident when I walk to my shopping/personal business destination.	4.0 ()	14.9 ()	16.2 ()	50.6 ()	14.1 ()	0.2
13. It is relaxing to walk to my shopping/personal business destination.	12.0 ()	44.5 ()	20.2 ()	18.5 ()	4.4 ()	0.6
14. I dislike walking to this shopping/personal business destination because of the many delays at intersections.	3.0 ()	12.7 ()	17.9 ()	53.4 ()	12.7 ()	0.3
15. Walking to this shopping/personal bus. destination is unsafe due to lack of pathways separated from motorized traffic.	6.7 ()	15.8 ()	10.4 ()	52.5 ()	14.1 ()	0.5
16. Walking to this shopping/personal bus. destination is dangerous because motorists are inconsiderate of pedestrians.	10.2 ()	26.1 ()	21.1 ()	35.5 ()	6.6 ()	0.5
17. When walking to this shopping/personal bus. destination, I worry about perspiring or soiling my clothes.	2.6 ()	9.9 ()	18.4 ()	54.2 ()	14.6 ()	0.3
18. Walking to this shopping/personal business destination gives healthful exercise.	37.2 ()	52.8 ()	5.9 ()	2.4 ()	1.3 ()	0.4

YOUR RATING OF CAR

When using a car, are you usually a:

77.7 () car driver

22.3 () car passenger

If you are usually a car driver, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about driving on this trip.

If you are usually a car passenger, even if you did not choose auto for your last shopping or personal business trip, rate the statements below concerning how you would feel about going to this destination as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO AN.
1. Traveling by car to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	() 5.3%	() 28.9	() 36.7	() 22.5	() 5.7	0.9
2. When shopping or on a personal business trip, it is convenient to stop and do errands when traveling by car.	() 25.0	() 52.5	() 5.1	() 11.8	() 5.0	0.6
3. I can pick up and go anytime I like when I travel by car on shopping or on personal business trips.	() 29.9	() 52.4	() 6.5	() 8.0	() 2.4	0.7
4. Traveling by car to this shopping/personal business destination is tiring.	() 2.4	() 10.3	() 16.2	() 51.6	() 18.5	1.0
5. Traveling by car to my shopping/personal business destination is dangerous because of the heavy traffic.	() 4.5	() 21.5	() 23.7	() 42.3	() 7.3	0.7
6. When on a shopping/personal business trip with children, it is inconvenient to go by car.	() 5.9	() 13.7	() 19.6	() 40.1	() 18.1	2.6
7. I cannot rely on traveling by car to this destination in rainy weather.	() 1.6	() 9.1	() 6.3	() 56.5	() 29.4	1.1
8. I can easily carry packages when I travel by car while I am on a shopping/personal business trip.	() 38.9	() 54.9	() 2.1	() 2.4	() 1.0	0.7
9. It is uncomfortable to travel by car to this shopping/personal business destination because of rough or bumpy road surfaces.	() 2.7	() 7.8	() 13.6	() 55.8	() 19.1	1.0
10. I can get to my shopping/personal business destination quickly when I travel by car.	() 29.7	() 54.1	() 5.7	() 7.9	() 1.9	0.7
11. I worry about being mugged or assaulted when I travel by car to my shopping/personal business destination.	() 0.8	() 2.7	() 10.6	() 53.6	() 31.5	0.8
12. I worry about being injured in an accident when I travel by car to my shopping/personal business destination.	() 2.6	() 14.7	() 22.6	() 45.4	() 13.9	1.0
13. It is relaxing to travel by car to my shopping/personal business destination.	() 8.0	() 33.5	() 33.2	() 20.1	() 4.4	0.8
14. I dislike traveling by car to this shopping/personal business destination because of the many delays at intersections.	() 4.3	() 19.0	() 21.8	() 45.5	() 8.6	0.8
15. Parking the car at this destination is expensive.	() 7.8	() 8.8	() 7.4	() 44.1	() 31.2	0.7
16. After parking the car, I must walk a long distance when I go to this shopping/personal business destination.	() 2.2	() 8.1	() 11.0	() 55.5	() 22.5	0.7
17. I worry about the car being stolen or vandalized at this destination.	() 2.1	() 8.6	() 15.1	() 55.8	() 17.5	0.9
18. It is inexpensive to buy and operate a car.	() 5.8	() 9.7	() 9.7	() 36.6	() 37.4	0.8
19. Parking the car is no trouble when on this shopping/personal business trip.	() 15.4	() 48.0	() 11.4	() 13.8	() 10.3	1.1

YOUR RATING OF BICYCLE

Was your most recent shopping or personal business destination located less than 4 miles from your home?

10.2 (%) Yes

19.8 (%) No

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination, even if you don't own a bicycle or didn't ride a bicycle on your last trip to this destination.

If your answer is NO, please go to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No
1. Bicycling to this shopping/personal business destination is pleasant because I can enjoy the scenery and surroundings.	9.6 ()	35.6 ()	23.7 ()	22.2 ()	7.9 ()	1.2
2. When shopping or on a personal business trip, it is convenient to stop and do errands, when riding a bicycle.	5.3 ()	31.2 ()	14.7 ()	37.1 ()	10.1 ()	1.2
3. I can pick up and go anytime I like when I ride a bicycle to go shopping or on personal business trips.	8.3 ()	47.6 ()	13.6 ()	23.0 ()	6.3 ()	1.2
4. Riding a bicycle to this shopping/personal business destination is tiring.	6.2 ()	25.8 ()	19.5 ()	29.4 ()	7.9 ()	1.2
5. Riding a bicycle to my shopping/personal business destination is dangerous because of the heavy traffic.	26.6 ()	43.7 ()	11.1 ()	14.5 ()	2.8 ()	1.3
6. When on a shopping/personal business trip with children, it is inconvenient to ride the bicycle.	36.3 ()	37.9 ()	10.6 ()	8.0 ()	5.7 ()	1.5
7. I cannot rely on riding a bicycle to this destination in rainy weather.	30.4 ()	52.4 ()	7.5 ()	6.7 ()	1.9 ()	1.1
8. I can easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	2.5 ()	13.4 ()	10.5 ()	47.9 ()	24.7 ()	1.0
9. It is uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	5.9 ()	20.2 ()	23.4 ()	43.3 ()	6.2 ()	1.0
10. I can get to my shopping/personal business destination quickly, when I ride a bicycle.	7.7 ()	42.7 ()	15.6 ()	26.5 ()	6.5 ()	1.0
11. I worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	2.5 ()	10.7 ()	21.2 ()	50.8 ()	13.5 ()	1.3
12. I worry about being injured in an accident when I ride a bicycle to my shopping/personal business destination.	16.1 ()	41.5 ()	15.6 ()	21.2 ()	4.8 ()	0.8
13. It is relaxing to ride by bicycle to my shopping/personal business destination.	5.6 ()	31.0 ()	25.1 ()	29.4 ()	7.7 ()	1.2
14. I dislike traveling by bicycle to this shopping/personal bus. destination because of many delays at intersections.	4.6 ()	21.3 ()	27.3 ()	39.8 ()	5.7 ()	1.3
15. Bicycling to this shopping/personal bus. destination is unsafe due to lack of bike paths separated from motorized traffic.	28.1 ()	28.2 ()	13.3 ()	16.3 ()	3.1 ()	1.0
16. Going by bicycle to this destination is dangerous because motorists are inconsiderate of bicyclists.	25.5 ()	37.9 ()	20.6 ()	12.8 ()	2.0 ()	1.3
17. When bicycling to this shopping/personal business destination, I worry about perspiring or soiling my clothes.	4.4 ()	16.4 ()	27.6 ()	40.3 ()	8.1 ()	1.2
18. Riding a bicycle gives healthful exercise.	45.5 ()	46.3 ()	4.6 ()	1.1 ()	1.0 ()	1.0
19. Parking, locking and unlocking my bicycle at this destination is no trouble.	8.3 ()	33.8 ()	17.8 ()	23.2 ()	19.5 ()	1.0
20. I worry about my bicycle being stolen at this shopping/personal business destination.	16.3 ()	33.4 ()	19.5 ()	21.4 ()	3.3 ()	1.1
21. It is inexpensive to buy and operate a bicycle.	17.6 ()	50.1 ()	14.7 ()	14.1 ()	2.5 ()	1.0

**WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL FOR SHOPPING/
PERSONAL BUSINESS TRIPS.**

1. Imagine that only BUS, WALK BICYCLE, and CAR (driver or passenger) were available for your most recent shopping/personal business trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. (If bus service was not available for your

shopping/personal business trip, please rank the three remaining alternatives.)

<u>RANKED 1</u>	<u>RANKED 2</u>	<u>RANKED 3</u>	<u>RANKED 4</u>	<u>NO ANSWER</u>
4.5 () bus	28.9	15.7	24.4	26.5
18.2 () walk	21.3	34.3	21.2	5.0
6.8 () bicycle	33.0	32.5	21.4	6.3
69.1 () car (driver or passenger)	11.8	11.4	5.1	2.6

2. We would like to know how often you use each of the following means of travel for shopping/personal business trips from home. Place an X under your best estimate of the number of days you have used each means of travel during the last 30 days.

	<u>Did not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>	<u>NO ANSWER</u>
bus	() 66.9	() 15.3	() 4.7	() 2.6	() 1.4	() 3.7	5.4
walk	() 30.7	() 27.8	() 10.7	() 4.8	() 4.4	() 16.4	5.2
drive a car	() 15.1	() 12.6	() 11.2	() 10.4	() 10.6	() 36.4	3.7
passenger in car	() 24.6	() 35.0	() 12.8	() 7.2	() 5.0	() 6.6	8.8
bicycle	() 70.3	() 12.1	() 4.0	() 1.9	() 1.5	() 2.9	7.3
other _____ (specify)	() -	() 2.0	() 0.6	() 0.3	() 0.5	() 1.0	-

3. Assume that on your next shopping/personal business trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below. (If bus service is not available for your Shopping/personal business trip, please rank the three remaining alternatives.)

<u>Ranked</u>		(a)		(b)		(c)		(d)	
<u>1st</u>	<u>2nd</u>	<u>\$1.00</u>		<u>\$1.50</u>		<u>\$3.00</u>		<u>\$4.00 Or More</u>	
		<u>1st</u>	<u>2nd</u>	<u>1st</u>	<u>2nd</u>	<u>1st</u>	<u>2nd</u>	<u>1st</u>	<u>2nd</u>
20.7	22.0	walk	() 25.1 22.0	walk	() 30.6 26.3	walk	() 31.7 29.0	walk	()
12.2	28.8	bicycle	() 17.7 28.3	bicycle	() 27.0 29.9	bicycle	() 28.0 31.3	bicycle	()
10.5	27.3	bus	() 18.0 22.4	bus	() 25.2 18.8	bus	() 24.9 18.7	bus	()
54.4	12.1	car	() 35.9 17.2	car	() 13.8 14.8	car	() 12.0 10.8	car	()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU. PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU SHOP OR DO PERSONAL BUSINESS BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 4 MILES OR LESS.

1. If you were to ride your bicycle to your shopping/personal business destination, what is your best estimate of the time you would spend doing the following?

getting the bicycle to the street	<u>2.6</u>	(minutes)
riding the bicycle	<u>13.6</u>	(minutes)
parking and locking up the bicycle	<u>3.0</u>	(minutes)
walking from bicycle to destination	<u>2.0</u>	(minutes)
TOTAL TIME FROM HOME TO DESTINATION	<u>21.3</u>	(minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to your shopping/personal business destination.

4.3 (%) bicycle path (off the street)	} 1.5% both
22.1 () bicycle lane (on the street)	
45.3 () neither	
13.9 () don't know	
both	

12.9 % of trips were more than 4 miles

3. What portion of your total trip from home to your shopping/personal business destination is served by bicycle paths or bicycle lanes?

44.2 () none
8.0 () less than 1/4 the distance
7.3 () 1/4 to 1/2 the distance
4.9 () 1/2 to 3/4 the distance
8.0 () more than 3/4 of the distance
14.7 () don't know

ANSWER IF DISTANCE FROM HOME TO SHOPPING/PERSONAL BUSINESS DESTINATION IS 2 MILES OR LESS.

4. If you were to walk to shopping/personal business, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at shopping/personal business destination?

20.9 (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to your shopping/personal business destination?

56.7 () all or almost all the way
16.2 () part of the way
9.6 () there are none
2.0 () don't know

19.5 % of trips are more than 2 miles

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop	<u>5.4</u> (minutes)
waiting for the bus	<u>12.6</u> (minutes)
riding on the bus	<u>13.4</u> (minutes)
walking from bus to destination	<u>4.7</u> (minutes)
TOTAL TIME FROM HOME TO DESTINATION	<u>35.2</u> (minutes)

(Averages)

7. Is it necessary to change buses to travel from your home to your shopping/personal business destination?

17.7 (%) Yes

50.2 () No

3.8 Don't know

Bus service not available : 28.3 %

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to your shopping/personal business destination?

8.5 times out of ten (mean)

9. What is the one-way bus fare on your trip from home to your shopping/personal business destination?

0.31 cents (mean) () don't know

10. If you were to go by car to your shopping/personal business destination, what is your best estimate of the time you would spend doing each of the following?

walking to the car	<u>2.0</u> (minutes)
driving or riding	<u>8.0</u> (minutes)
parking the car	<u>3.1</u> (minutes)
walking from car to destination	<u>2.5</u> (minutes)
TOTAL TIME FROM HOME TO DESTINATION	<u>15.6</u> (minutes)

(Mean values)

11. What is the parking cost on your trip from home to your shopping/personal business destination?

(CHECK ONE AND SPECIFY THE COST.)

() no charge

() daily charge 1.90 (dollars)

() weekly charge _____ (dollars)

() monthly charge _____ (dollars)

(Mean)

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

53.3 () Yes

46.6 () No (IF "NO", GO TO NEXT PAGE.)

0.1 Don't know

2. Did you ride a bicycle during the last month?

29.8 () Yes

23.4 () No (IF "NO", GO TO NEXT PAGE.)

0.1 Don't know

(46.7 did not ride during the year)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h" below) during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
a. To work	23.6 (%)	1.8 ()	0.6 ()	0.7 ()	0.5 ()	1.4 ()	1.2
b. To school	22.3 ()	2.0 ()	0.7 ()	0.5 ()	0.9 ()	1.7 ()	1.7
c. For personal business	11.9 ()	9.8 ()	3.4 ()	1.7 ()	1.4 ()	1.1 ()	0.6
d. To visit friends	12.5 ()	11.2 ()	2.4 ()	1.3 ()	0.9 ()	1.1 ()	0.4
e. To go shopping	14.6 ()	9.2 ()	2.8 ()	1.4 ()	0.6 ()	0.8 ()	0.4
f. To a recreational activity	11.4 ()	10.4 ()	3.6 ()	1.3 ()	1.2 ()	1.5 ()	0.4
g. Neighborhood riding	4.5 ()	14.9 ()	4.7 ()	1.7 ()	1.1 ()	2.7 ()	0.2
h. Long distance riding (over 2 hours)	22.7 ()	4.8 ()	0.5 ()	0.1 ()	0.2 ()	0.8 ()	0.7

(70.2 % did not ride bicycle in last month)

Is your selected shopping or personal business destination located less than 4 miles away from your home?

81.1% () Yes

If your answer is YES, please read below.

18.9% () No

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right-hand side of the road marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for better riding. In addition, high-intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high activity areas, these consist of enclosed storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made freely available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to your shopping or personal business destination assuming the bicycle facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to your shopping or personal business destination using the facility improvements described on the previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Bicycling to this shopping/personal bus. destination would be pleasant because I could enjoy the scenery and surroundings.	44.1	23.5	12.8	2.2	0.9	
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when riding a bicycle	12.2	48.5	14.0	21.1	3.2	1.0
3. I could pick up and go anytime I like when I ride a bicycle on shopping or on personal business trips.	14.3	57.5	10.7	13.5	2.8	1.2
4. Riding a bicycle to this shopping/personal business destination would be tiring.	4.4	21.8	19.6	45.7	7.2	1.3
5. Riding a bicycle to my shopping/personal business destination would be dangerous because of the heavy traffic.	5.8	19.1	12.2	51.2	10.7	1.0
6. When on my shopping/personal business trip with children, I would find it convenient to ride the bicycle.	14.3	14.8	18.9	43.9	16.6	1.5
7. I could not rely on riding a bicycle in rainy weather.	17.8	57.1	10.2	11.9	1.8	1.2
8. I could easily carry packages when I ride a bicycle while I am on a shopping/personal business trip.	2.8	18.0	15.6	49.5	13.8	1.3
9. It would be uncomfortable to travel to this destination by bicycle because of rough or bumpy riding surfaces.	2.3	7.7	14.8	59.2	14.6	1.4
10. I could get to my shopping/personal business destination quickly when I ride a bicycle.	10.3	52.1	14.6	19.3	2.4	1.3
11. I would worry about being mugged or assaulted when I ride a bicycle to my shopping/personal business destination.	1.7	10.2	20.5	54.5	12.1	1.0
12. I would worry about being injured in an accident when I ride a bicycle to my shopping/personal bus. destination.	4.3	19.7	14.7	51.3	9.0	1.0
13. It would be relaxing to ride by bicycle to my shopping/personal business destination.	9.8	45.5	20.5	19.6	3.1	1.5
14. I would dislike bicycling to this shopping/personal bus. destination because of many delays at intersections.	2.2	17.3	21.5	51.9	6.1	1.0
15. Bicycling to this shopping/personal bus. destination would be unsafe due to lack of bike paths separated from motor traffic.	4.4	16.4	11.7	47.0	18.4	2.1
16. Bicycling to this shopping/personal business destination would be dangerous because motorists are inconsiderate of bikers.	6.4	22.2	13.8	42.0	8.5	2.1
17. When bicycling to this destination, I would worry about perspiring or soiling my clothes.	2.3	14.8	22.6	50.1	9.0	1.2
18. Riding a bicycle would give healthful exercise.	41.2	51.3	4.6	0.9	0.8	1.2
19. Parking, locking and unlocking my bicycle would be no trouble.	16.1	58.7	12.6	10.7	1.0	0.9
20. I would worry about my bicycle being stolen at this shopping/personal business destination.	5.2	19.7	16.0	49.5	8.6	1.0
21. It would be inexpensive to buy and operate a bicycle.	20.5	53.9	12.1	11.2	1.3	1.0

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative. Please repeat the process for each statement (a) through (c) below. (If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)

- a. Assume the bicycle facilities are in place. Please rank the following means of travel for your next shopping or personal business trip to the same destination.

<u>RANK 1</u>	<u>RANK 2</u>		<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS</u>
21.1	40.6	() bicycle with improved facilities	20.0	12.2	6.1
17.4	20.5	() walk	35.1	21.5	5.5
3.5	19.2	() bus/transit	21.6	29.7	26.0
55.7	13.5	() car (driver or passenger)	16.6	9.9	4.3

- b. Now assume the same condition as (a) above, except that the price of gasoline has increased to \$1.50 per gallon (please rank again).

35.0	32.0	() bicycle with improved facilities	16.4	10.7	5.9
21.5	28.3	() walk	26.0	18.8	5.4
9.5	18.4	() bus/transit	24.7	21.8	25.6
31.4	15.1	() car (driver or passenger)	26.0	22.2	5.3

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon (please rank again).

47.5	27.1	() bicycle with improved facilities	10.1	9.9	5.4
23.6	37.5	() walk	20.1	13.3	5.5
15.5	16.2	() bus/transit	28.2	13.8	26.3
10.8	12.6	() car (driver or passenger)	34.3	35.7	6.6

2. If only the alternatives listed below were available for your next 10 shopping or personal business trips, how many of the 10 trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

2.3 () bicycle with improved facilities
 2.0 () walk
 0.8 () bus/transit
 4.9 () car (driver or passenger)
 (10) TOTAL TRIPS

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion, and costly street and highway expenditures. It has been suggested that in order to reduce these problems, people must live nearer to their places of employment, shopping, school, and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six-block (1/2 mile) distance and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to all shopping and personal business destinations without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available; and there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS, or CAR for your shopping or personal business trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statement:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
I would like to live in this type of community.	28.8 (%)	41.4 ()	15.3 ()	6.2 ()	4.2 ()	4.1

2. Please indicate your preference for each of the following transportation alternatives on your shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. (Please repeat the process for each statement (a) through (d) below.)

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next shopping or personal business trip, and assume further that your trip is approximately 1/2 mile (6 blocks) in length. (Please rank the following means of transportation.)

	1	2	3	4		1	2	3	4
() walk	44.3	29.4	13.2	6.4	() bus or transit	4.1	13.1	33.9	36.0
() bicycle	28.9	37.3	11.2	14.0	() car (driver or passenger)	20.4	11.0	32.0	29.8

- b. Now suppose that in addition to the conditions described in (a) above the price of gasoline increased to \$1.50 per gallon. (Please rank the following means of transportation.)

() walk	45.9	31.8	9.0	5.9	() bus or transit	6.6	13.7	43.3	23.9
() bicycle	32.7	35.9	9.6	13.1	() car (driver or passenger)	11.9	9.1	28.1	43.3

- c. Assume the conditions described in (a) above and assume that in addition the speed limit was reduced to 15 m.p.h. in the community. (Please rank the following means of transportation.)

() walk	46.4	32.3	8.6	5.6	() bus or transit	4.1	13.0	42.7	26.1
() bicycle	32.6	37.3	9.0	12.5	() car (driver or passenger)	13.5	8.0	29.5	41.5

- d. Assume again conditions described in (a) above but this time assume no parking was available at your shopping or personal business destination. (Please rank the following means of transportation.)

() walk	53.6	29.7	6.7	2.8	() bus or transit	10.0	16.2	54.4	6.9
() bicycle	28.1	40.7	12.0	8.8	() car (driver or passenger)	5.2	3.3	15.2	66.0

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. AS YOU RECALL, YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 39.7 ^{Mean} (age)
2. What is your sex? 46.5 % () Male 53.4 () Female NO ANS. = 0.1 %
3. How many adults (18 or over), including yourself, are there in your household? 2.1 Mean
4. How many minors (under 18) are there in your household? 0.8 Mean
5. Do you have a valid driver's license? 88.9 % () Yes 10.8 () No NO ANS. = 0.3 %
6. How many licensed drivers (including yourself) are there in your household? 2.0 mean
7. How many automobiles are there in your household? 1.7 mean
8. Do you own a bicycle? 51.6 % () Yes 48.2 % () No NO ANS = 0.3 %
9. How many bicycles are there in your household? 1.5 mean
10. What type of structure do you live in?

<u>59.6 %</u> single family	<u>1.4</u> () low-rise apartment (4 to 8 stories)
<u>6.1</u> () duplex	<u>4.1</u> () high-rise apartment (more than 8 stories)
<u>7.4</u> () townhouse	<u>5.5</u> () other _____
<u>15.4</u> () walk-up apartment (3 stories or less)	<u>0.5</u> NO ANS. <small>(please specify)</small>
11. What is your educational background? (CHECK ONE)

<u>2.6</u> () completed elementary school	<u>19.8</u> () college or technical school graduate
<u>9.3</u> () some high school	<u>9.3</u> () some graduate school
<u>17.4</u> () high school graduate	<u>13.3</u> () completed graduate degree(s)
<u>27.4</u> () some college or technical school	<u>0.9</u> NO ANS.
12. Please indicate your work group below:

<u>37.9</u> () work 5 or more days a week	<u>5.2</u> () work 1-2 days a week
<u>6.1</u> () work 3-4 days a week	<u>45.6</u> () presently not employed
	<u>5.2</u> NO ANS

Is your shopping or personal business destination located less than 2 miles from your home?

71.6 (9.) Yes

28.4 () No

If your answer is YES, please read below.

If your answer is NO, please go to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO YOUR SHOPPING OR PERSONAL BUSINESS DESTINATION USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrianways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass median. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High-intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches, and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to your shopping or personal business destination, assuming the facility improvements described above are available to you on your next shopping or personal business trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to your shopping or personal business destination using the facility improvements described on the previous page, even if you did not walk there on your last trip.

	<u>Strongly Agree</u>	<u>Agree</u>	<u>Neither Agree Nor Disagree</u>	<u>Disagree</u>	<u>Strongly Disagree</u>
1. Walking to a shopping/personal business destination would be pleasant because I could enjoy the scenery and surroundings.	()	()	()	()	()
2. When shopping or on a personal business trip, it would be convenient to stop and do errands when walking.	()	()	()	()	()
3. I could pick up and go anytime I like when I walk to go shopping or on personal business trips.	()	()	()	()	()
4. Walking to this shopping/personal business destination would be tiring.	()	()	()	()	()
5. Walking to my shopping/personal business destination would be dangerous because of the heavy traffic.	()	()	()	()	()
6. When on a shopping/personal business trip with children, it would be inconvenient to walk.	()	()	()	()	()
7. I could not rely on walking to this destination in rainy weather.	()	()	()	()	()
8. I could easily carry packages when I walk while I am on a shopping/personal business trip.	()	()	()	()	()
9. It would be uncomfortable to walk to this destination because of rough or bumpy walking surfaces.	()	()	()	()	()
10. I could get to my shopping/personal business destination quickly when I walk.	()	()	()	()	()
11. I would worry about being mugged or assaulted when I walk to my shopping/personal business destination.	()	()	()	()	()
12. I would worry about being injured in an accident when I walk to my shopping/personal business destination.	()	()	()	()	()
13. It would be relaxing to walk to my shopping/personal business destination.	()	()	()	()	()
14. I would dislike walking to this destination because of the many delays at intersections.	()	()	()	()	()
15. Walking to my destination would be unsafe because of the lack of pathways that are separated from motorized traffic.	()	()	()	()	()
16. Walking to a shopping/personal business destination would be dangerous because motorists are inconsiderate of pedestrians.	()	()	()	()	()
17. When walking to this destination I would worry about perspiring or soiling my clothes.	()	()	()	()	()
18. Walking would give healthful exercise.	()	()	()	()	()

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR PREFERENCES BELOW FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your preference for the following alternative means of travel for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat the process for each statement (a) through (c) below. (If bus service is not available between your home and your shopping or personal business destination, rank the three remaining alternatives.)

- a. Assume the walk facilities are in place. Please rank the following means of travel for your next shopping or personal business trip.

<u>RANK 1</u>		<u>RANK 2</u>	<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS</u>
33.6	() walk with improved facilities	28.7	25.9	7.6	4.2
10.3	() bicycle	33.0	29.3	21.3	6.1
2.9	() bus/transit	17.3	19.2	34.3	26.3
52.1	() car (driver or passenger)	15.4	19.7	9.6	3.2

- b. Now assume the same condition (a) above except that the price of gasoline has increased to \$1.50 per gallon. (Please rank again.)

41.9	() walk with improved facilities	28.1	19.4	6.8	3.8
20.4	() bicycle	32.4	23.9	16.9	6.4
8.0	() bus/transit	17.9	23.0	24.6	26.5
28.3	() car (driver or passenger)	15.9	27.5	23.9	4.4

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

49.3	() walk with improved facilities	32.2	10.8	4.2	3.5
27.2	() bicycle	34.5	19.8	12.2	6.3
16.8	() bus/transit	16.7	30.3	15.7	26.5
11.2	() car (driver or passenger)	10.6	32.6	40.1	5.5

2. If only the alternatives listed below are available for your next ten shopping or personal business trips, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

- 3.2 () walk with improved facilities
 1.2 () bicycle
 0.8 () bus/transit
 4.8 () car (driver or passenger)
 (10) TOTAL TRIPS

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to a \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

Please turn to the following page.

YOU HAVE JUST READ AN ASSUMED REGULATION FOR CAR USAGE. IMAGINE THAT THIS SITUATION FOR CAR USAGE EXISTS FOR YOUR NEXT SHOPPING OR PERSONAL BUSINESS TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANS.
a. I believe that a congestion fee of two dollars per day is desirable.	7.6%	11.1	10.4	24.3	44.6	2.0
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	2.1	5.2	8.8	36.5	44.5	2.9

2. Please indicate your preference for each of the following transportation alternatives for your next shopping or personal business trip by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" under your least preferred alternative. Please repeat this for each of the statements (a) through (c) below. (If bus service is not available for this shopping or personal business trip, please rank the remaining three alternatives only.)

a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect.

Please rank the following means of transportation for your next shopping or personal

<u>RANK 1</u>	business trip.	<u>RANK 2</u>	<u>RANK 3</u>	<u>RANK 4</u>	<u>NO ANS.</u>
29.3	() walk	27.4	21.8	14.0	7.5
19.4	() bicycle	29.1	24.8	16.5	10.2
16.6	() bus or transit	21.6	22.1	15.3	24.4
32.1	() car (driver or passenger)	13.7	21.1	26.7	6.4

b. Assume that instead of \$2.00 the congestion fee increased to \$4.00 per day. (Please rank again.)

33.7	() walk	28.4	19.8	10.6	7.5
22.7	() bicycle	31.6	21.9	13.3	10.5
22.4	() bus or transit	19.1	24.0	10.6	23.9
18.4	() car (driver or passenger)	12.3	23.5	37.7	8.1

c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

33.4	() walk	28.6	20.1	10.3	7.6
24.3	() bicycle	31.6	20.5	13.3	10.3
21.8	() bus or transit	19.9	24.2	10.4	23.7
17.7	() car (driver or passenger)	11.6	24.5	38.3	7.9

 WE WOULD LIKE TO ASK A FEW QUESTIONS ABOUT YOUR MOST RECENT TRIP FROM HOME TO WORK.

1. What is the nearest interest intersection or street address of the place where you work?

(nearest intersection or street address)

(city)

2. Where is the place where you work located: *No Answer: 2.8%*

60.2% () central city

37.0% () suburban

3. Specify the type of area where your work place is located. (CHECK ONE)

23.4% () central business district
(downtown of metropolitan area)

19.8% () industrial district

19.6% () neighborhood business district or
shopping center

8.6% () office park/professional building

2.8% () regional shopping center

9.8% () college campus or school

12.6% () other

(please specify)

4. Approximately how far is it from your home to your work place (one way)? *No Answer: 0.8%*

2.8% () 2 blocks or less
($\frac{1}{4}$ mile or less)

17.2% () 2 to 4 miles

6.6% () 3 to 6 blocks
($\frac{1}{2}$ to $\frac{3}{4}$ mile)

12.0% () 4 to 6 miles

12.7% () $\frac{1}{2}$ to 1 mile

10.6% () 6 to 10 miles

17.0% () 1 to 2 miles

20.3% () over 10 miles

5. What was the date of your most recent trip to work?

month/day

6. At approximately what time of day did you make this trip to work? *No Answer - 1.1%*

22.9% () before 7 a.m.

6.3% () 10 a.m. to 2 p.m.

31.2% () 7 a.m. to 8 a.m.

5.9% () 2 p.m. to 6 p.m.

21.5% () 8 a.m. to 9 a.m.

7.9% () after 6 p.m.

() 9 a.m. to 10 a.m.

7. How did you make your most recent trip to work? (CHECK ONE) *No Answer 1.0%*

10.5% () walked all the way

0.6% () motorcycle

67.4% () drove a car

2.5% () bicycle

7.3% () passenger in a car

0.1% () moped (motorized bicycle)

7.4% () bus

0.3% () taxi

1.4% () train or subway

1.5% () other _____
(please specify)

7a. If you answered bus, train or subway above, how did you get to your bus or transit stop?

() bicycle

0.1% () drove and parked

0.1% () taxi

0.3% () passenger in a car

8.3% () walked

0.1% () other _____
(please specify)

8. Between the time you left home to go to work and the time you returned home, did you make any side trips that required you to travel more than one mile out of your way?

25.5% () yes

73.1% () no

9. Did anyone accompany you on your last work trip? (CHECK ONE) *No Answer 1.5%*

79.8% () I traveled alone

2.8% () I was with two other persons

14.0% () I was with one other person

1.9% () I was with three or more persons

NOW WE WOULD LIKE YOUR OPINION OF DIFFERENT MEANS OF TRAVEL. PLEASE CONSIDER YOUR MOST RECENT TRIP TO WORK WHEN COMPLETING THE FOLLOWING SECTION.

Imagine that only the following options were available to you on your most recent work trip: CAR (driving or riding), BUS (or transit), WALK, and BICYCLE. For your travel to work we would like to learn how you feel about each means of transportation. Please give us your opinion of each means of transportation even if you never use it.

The following pages are labeled with the means of transportation you are asked to rate. Under each label you will find a set of statements. Please read each statement and place an "X" in the space that best indicates your agreement with the statements under each means of transportation you are rating.

For example, consider the following statement for bus:

	<u>Strongly</u> <u>Agree</u>	<u>Agree</u>	<u>Neither</u> <u>Agree Nor</u> <u>Disagree</u>	<u>Disagree</u>	<u>Strongly</u> <u>Disagree</u>
I enjoy traveling to work by bus.	()	(X)	()	()	()

If you enjoy traveling by bus, you would put an "X" in the box under agree or strongly agree, depending on how much you enjoy travel by bus. If you do not enjoy travel by bus, you would put an "X" under disagree or strongly disagree. If you neither agree nor disagree you would place an "X" in the center box. In the example shown here, an "X" has been placed in the box under "agree", indicating this person enjoys traveling by bus.

Because we need to understand how your rating of your trip to work varies from one means of transportation to another, we are asking that you go through the list of characteristics four times, once for each means of travel (walk, bicycle, car, and bus). Although this process might appear "repetitious, we want to stress that your careful rating of all the statements on the next four pages are especially important to the success of this survey.

YOUR RATING OF BICYCLE

Is your work place located less than 6 miles from your home?

64.7% () Yes

35.3% () No

If your answer is YES, please rate the statements below concerning how you would feel about bicycling to work even if you don't own a bicycle, or didn't ride a bicycle on your last trip to work.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Bicycling to work is pleasant because I can enjoy the scenery and surroundings.	13.5%	37.3%	21.4%	19.4%	6.8%	1.6%
2. When biking, it is convenient to stop and do errands on my way to and from work.	4.4%	53.4%	18.8%	42.3%	9.4%	1.7%
3. I can pick up and go anytime I like when I go to work by bicycle.	7.1%	43.8%	14.7%	23.2%	5.4%	1.8%
4. Traveling to work by bicycle is tiring.	9.0%	29.8%	21.1%	33.1%	6.4%	1.6%
5. Riding a bicycle to work is dangerous because of the heavy traffic.	32.5%	42.4%	9.9%	11.5%	2.0%	1.7%
6. When I ride the bicycle to work I worry about being late.	5.7%	22.9%	23.6%	39.5%	6.4%	1.9%
7. I cannot rely on riding a bicycle to work in rainy weather.	29.1%	59.7%	4.9%	3.9%	0.8%	1.0%
8. I can easily carry my briefcase or other packages when I ride the bicycle to work.	2.9%	20.3%	12.4%	46.7%	15.9%	1.8%
9. It is uncomfortable to travel to work by bicycle because of rough and bumpy riding surfaces.	8.2%	33.7%	23.6%	31.7%	4.3%	1.5%
10. I can get to work quickly when I go by bicycle.	6.1%	35.3%	20.9%	28.9%	7.1%	1.7%
11. I worry about being mugged or assaulted when I travel to work by bicycle.	4.6%	13.6%	22.0%	46.8%	11.3%	1.7%
12. I worry about being injured in an accident if I ride the bicycle to work.	19.3%	39.6%	16.6%	19.7%	3.0%	1.8%
13. It is relaxing to travel to work by bicycle.	5.2%	28.5%	26.3%	29.5%	8.4%	2.1%
14. I dislike traveling to work by bicycle because of the many stops and delays at intersections.	6.9%	28.7%	26.3%	33.4%	2.9%	1.8%
15. Riding the bicycle to work is unsafe because of the lack of bike paths that are separated from motorized traffic.	35.4%	42.1%	8.9%	10.3%	1.6%	1.7%
16. Going by bicycle to work is dangerous because motorists are inconsiderate of bicyclists.	32.1%	40.8%	15.8%	8.8%	0.8%	1.7%
17. When bicycling to work I worry about perspiring or soiling my clothes.	13.3%	36.7%	21.5%	24.3%	2.3%	1.9%
18. Riding a bicycle to work gives healthful exercise.	36.3%	53.8%	5.4%	1.6%	0.7%	2.2%
19. Parking, locking and unlocking my bicycle at work is no trouble.	9.4%	44.0%	13.5%	23.8%	8.0%	1.8%
20. After parking my bicycle I must walk a long distance when I go to work.	0.9%	3.4%	13.3%	58.8%	21.6%	2.0%
21. I worry about my bicycle being stolen at work.	14.0%	34.2%	14.2%	28.8%	7.0%	1.8%
22. It is inexpensive to buy and operate a bicycle.	19.7%	47.7%	13.7%	12.9%	4.2%	1.8%

YOUR RATING OF BUS (or transit)

Is bus service available between your home and work place?

59.5% () yes

40.5% () no

If your answer is YES, please rate the statements below concerning how you would feel about going to work by bus even if you didn't choose bus on your last work trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Going to work by bus is pleasant because I can enjoy the scenery and surroundings.	5.6%	34.9%	29.0%	22.3%	7.2%	1.0%
2. When traveling by bus, it is inconvenient to stop and do errands on my way to and from work.	27.0%	45.8%	7.7%	13.4%	5.4%	0.7%
3. I must schedule my trips in advance when I travel by bus to work.	20.8%	51.5%	11.1%	13.9%	1.8%	0.9%
4. Traveling by bus to work is very tiring.	5.6%	16.4%	26.1%	41.9%	9.2%	0.8%
5. Traveling by bus to work is dangerous because of the heavy traffic.	1.1%	3.8%	17.2%	58.2%	19.0%	0.7%
6. When I take the bus to work I worry about being late.	13.9%	40.6%	17.7%	23.9%	3.4%	0.5%
7. I cannot rely on taking a bus to work in rainy weather.	7.3%	20.6%	20.4%	43.7%	7.5%	0.5%
8. I can easily carry my briefcase or other packages when I go to work by bus.	6.3%	53.2%	14.1%	21.1%	4.8%	0.5%
9. It is uncomfortable to travel to work by bus because of rough and bumpy road surfaces.	3.5%	13.2%	23.4%	51.4%	7.8%	0.7%
10. I can get to work quickly when I take the bus.	2.5%	16.3%	19.3%	41.4%	19.6%	0.9%
11. I worry about being mugged or assaulted when I go to work by bus.	3.4%	10.3%	16.9%	54.5%	14.1%	0.8%
12. I worry about being injured in an accident if I go to work by bus.	0.4%	2.7%	17.8%	59.6%	18.0%	1.0%
13. It is relaxing to go to work by bus.	5.4%	27.1%	33.0%	27.2%	6.8%	0.5%
14. I dislike traveling to work by bus because of the many stops and delays at intersections.	13.8%	37.2%	19.7%	26.1%	2.5%	0.7%
15. I must walk a long distance to get to and from the bus when I go to work.	8.0%	22.2%	14.9%	43.5%	10.5%	0.9%
16. There is generally a long wait involved when I go to work by bus.	15.1%	40.3%	21.5%	20.0%	2.4%	2.7%
17. When traveling by bus to work I worry about perspiring or soiling my clothes.	2.0%	10.2%	21.3%	53.8%	11.8%	0.9%
18. It is inexpensive to travel by bus to work.	8.8%	41.6%	20.1%	24.4%	4.6%	0.5%

YOUR RATING OF WALK

Is your work place located less than 3 miles from your home?

47.4% () yes

52.6% () no

If your answer is YES, please rate the statements below concerning how you would feel about walking to work even if you did not walk on your last work trip.

If your answer is NO, please go on to the next page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Walking to work is pleasant because I can enjoy the scenery and surroundings.	23.2% ()	41.7% ()	17.8% ()	13.1% ()	3.4% ()	0.8%
2. When walking, it is convenient to stop and do errands on my way to and from work.	16.8% ()	32.4% ()	11.7% ()	30.9% ()	7.1% ()	1.1%
3. I can pick up and go anytime I like when I walk to work.	18.0% ()	41.2% ()	13.6% ()	21.4% ()	5.0% ()	0.7%
4. Walking to work is tiring.	6.1% ()	26.2% ()	14.4% ()	37.6% ()	14.6% ()	1.1%
5. Walking to work is dangerous because of the heavy traffic.	7.6% ()	21.9% ()	15.0% ()	43.9% ()	10.6% ()	1.0%
6. When I walk to work I worry about being late.	8.2% ()	27.2% ()	15.1% ()	37.2% ()	11.3% ()	1.0%
7. I cannot rely on walking to work in rainy weather.	22.6% ()	45.9% ()	8.6% ()	16.6% ()	5.3% ()	1.0%
8. I can easily carry my briefcase or other packages when I walk to work.	7.1% ()	43.9% ()	12.4% ()	28.2% ()	7.6% ()	0.8%
9. It is uncomfortable to walk to work because of rough or bumpy walking surfaces.	5.2% ()	14.6% ()	15.8% ()	52.5% ()	10.7% ()	1.0%
10. I can get to work quickly when I walk.	10.2% ()	25.6% ()	13.6% ()	38.5% ()	11.0% ()	1.1%
11. I worry about being mugged or assaulted when I walk to work.	6.9% ()	16.6% ()	14.7% ()	46.4% ()	12.9% ()	1.5%
12. I worry about being injured in an accident if I walk to work.	2.3% ()	15.3% ()	16.9% ()	50.0% ()	14.4% ()	1.1%
13. It is relaxing to walk to work.	15.7% ()	43.7% ()	19.6% ()	17.0% ()	2.6% ()	1.4%
14. I dislike walking to work because of the many delays at intersections.	2.5% ()	13.1% ()	21.3% ()	49.7% ()	12.5% ()	1.1%
15. Walking to work is unsafe because of the lack of pathways that are separated from motorized traffic.	10.6% ()	21.9% ()	11.7% ()	44.2% ()	10.6% ()	0.8%
16. Walking to work is dangerous because motorists are inconsiderate of pedestrians.	12.4% ()	29.3% ()	22.1% ()	30.6% ()	4.8% ()	0.8%
17. When walking to work I worry about perspiring or soiling my clothes.	4.2% ()	22.8% ()	19.8% ()	44.7% ()	7.5% ()	1.0%
18. Walking to work gives healthful exercise.	43.2% ()	48.7% ()	5.2% ()	1.1% ()	1.0% ()	0.8%

YOUR RATING OF CAR

When using a car, are you usually a:

84.6% () car driver?

15.4% () car passenger?

If you are usually a car driver, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about driving to work.

If you are usually a car passenger, even if you did not choose auto for your last work trip, rate the statements below concerning how you would feel about going to work as a car passenger.

Please answer all questions below, even if you do not own a car.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	NO ANSWER
1. Traveling by car to work is pleasant because I can enjoy the scenery and surroundings.	5.5%	27.5%	35.7%	22.0%	7.1%	2.1%
2. When traveling by car, it is convenient to stop and do errands on my way to and from work.	22.0%	52.5%	6.1%	12.9%	5.3%	1.5%
3. I can pick up and go anytime I like when I travel by car to work.	29.0%	49.8%	6.0%	10.6%	3.0%	1.6%
4. Traveling by car to work is tiring.	3.9%	12.6%	17.4%	49.0%	15.7%	1.7%
5. Traveling by car to work is dangerous because of the heavy traffic.	6.4%	25.7%	24.3%	33.6%	5.2%	1.8%
6. When I go by car to work I worry about being late.	2.0%	9.9%	13.2%	56.7%	16.3%	1.5%
7. I cannot rely on traveling by car to work in rainy weather.	1.6%	3.7%	5.9%	57.9%	29.4%	1.5%
8. I can easily carry my briefcase or other packages when I travel by car to work.	35.2%	55.6%	4.0%	2.6%	1.1%	1.5%
9. It is uncomfortable to travel by car to work because of rough or bumpy road surfaces.	2.3%	7.7%	14.8%	54.9%	17.8%	1.5%
10. I can get to work quickly when I travel by car.	28.7%	51.9%	8.2%	7.4%	2.3%	1.5%
11. I worry about being mugged or assaulted when I travel by car to work.	0.8%	1.6%	6.5%	53.0%	36.5%	1.6%
12. I worry about being injured in an accident if I travel by car to work.	3.0%	14.6%	25.1%	43.7%	12.1%	1.5%
13. It is relaxing to travel by car to work.	6.3%	30.7%	33.7%	21.0%	6.4%	1.7%
14. I dislike traveling by car to work because of the many delays at intersections.	5.1%	22.3%	24.2%	40.9%	5.8%	1.7%
15. Parking the car at my place of work is expensive.	10.2%	10.2%	5.4%	37.0%	35.4%	1.3%
16. After parking the car, I must walk a long distance when I go to work.	1.7%	6.3%	7.6%	51.7%	31.0%	1.5%
17. I worry about the car being stolen or vandalized at work.	3.7%	12.6%	13.3%	49.1%	18.7%	1.5%
18. It is inexpensive to buy and operate a car.	7.7%	11.3%	8.3%	34.6%	36.6%	1.5%
19. Parking the car at work is no trouble.	24.9%	48.1%	6.1%	11.5%	7.7%	1.7%

WE WOULD LIKE TO KNOW YOUR PREFERENCES FOR VARIOUS MEANS OF TRAVEL TO WORK.

1. Imagine that only BUS, WALK, BICYCLE, and CAR (driver or passenger) were available for your most recent work trip. These alternatives are listed below. Please indicate your preference by placing a "1" next to the alternative you prefer the most, a "2" next to your second most-preferred alternative, a "3" next to your third most-preferred alternative, and a "4" next to your least-preferred alternative.

(If bus service was not available for your work trip, please rank the three remaining alternatives.)

Rank #1		#2	#3	#4	NO ALTERNATIVE
5.9%	() bus	32.3%	11.7%	17.3%	32.8%
13.7%	() walk	12.9%	25.8%	30.9%	6.7%
6.8%	() bicycle	38.2%	35.7%	12.3%	7.0%
72.0%	() car (driver or passenger)	10.2%	9.4%	5.5%	2.9%

2. We would like to know how often you use each of the following means of travel for work trips from home. Place an "X" under your best estimate of the number of days you have used each means of travel during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	NO ANSWER
bus	72.7% ()	7.5% ()	2.4% ()	2.0% ()	2.3% ()	4.0% ()	9.1%
walk	67.6% ()	9.4% ()	1.8% ()	2.3% ()	1.8% ()	8.1% ()	9.0%
drive a car	14.8% ()	8.5% ()	4.2% ()	5.3% ()	8.9% ()	53.1% ()	5.2%
passenger in a car	60.7% ()	16.0% ()	3.9% ()	2.7% ()	2.4% ()	4.2% ()	10.1%
bicycle	80.0% ()	4.5% ()	1.6% ()	0.7% ()	0.6% ()	1.5% ()	11.1%
other _____ (specify)	— ()	2.0% ()	0.3% ()	0.4% ()	0.6% ()	1.0% ()	95.7%

3. Assume that on your next work trip all travel conditions remained the same as present except that the price of gasoline increased to one of the price levels indicated below. For each gasoline price level, please indicate your transportation preference by placing a "1" next to the alternative you would prefer the most, a "2" next to the one you would prefer second, a "3" next to your third choice, and a "4" next to your least-preferred alternative. Please repeat for each of the price levels (a) through (d) below.

(If bus service is not available for your work trip, please rank the three remaining alternatives.)

RANKED		(a) \$1.00 Per Gallon	(b) \$1.50 Per Gallon	(c) \$3.00 Per Gallon	(d) \$4.00 Or More Per Gallon
#1	#2	#1 ; #2	#1 ; #2	#1 ; #2	#1 ; #2
14.8%	12.1%	walk () 15.1 ; 13.2%	walk () 19.4 ; 17.7%	walk () 19.9 ; 19.9%	walk ()
10.1%	32.2%	bicycle () 14.3 ; 32.0%	bicycle () 22.6 ; 32.0%	bicycle () 24.4 ; 23.7%	bicycle ()
13.8%	32.3%	bus () 16.6 ; 27.6%	bus () 26.2 ; 20.0%	bus () 26.4 ; 18.8%	bus ()
60.7%	10.5%	car () 49.1 ; 13.9%	car () 27.3 ; 16.9%	car () 24.7 ; 14.1%	car ()

WE WOULD LIKE TO KNOW MORE ABOUT THE TRANSPORTATION SERVICE AVAILABLE TO YOU. PLEASE DESCRIBE THE SERVICE FOR TRIPS FROM HOME TO THE PLACE WHERE YOU WORK BY ANSWERING THE FOLLOWING QUESTIONS:

ANSWER IF DISTANCE FROM HOME TO WORK IS 6 MILES OR LESS.

1. If you were to ride your bicycle to work, what is your best estimate of the time you would spend doing each of the following?

getting the bicycle to the street 2.54 (minutes)

riding the bicycle 19.51 (minutes)

parking and locking up the bicycle 3.40 (minutes)

walking from bicycle to school 1.71 (minutes)

TOTAL TIME FROM HOME TO WORK 27.01 (minutes)

2. Is there a bicycle path or marked bicycle lane which you could use to bicycle on part or all of your trip from home to work?

4.57% () bicycle path (off the street)

10.67% () bicycle lane (on the street)

42.17% () neither

9.47% () don't know

1.67% () BOTH

3. What portion of your total trip from home to work is served by bicycle paths or bicycle lanes?

42.47% () none

6.17% () less than 1/4 the distance

5.27% () 1/4 to 1/2 the distance

3.17% () 1/2 to 3/4 the distance

2.89% () more than 3/4 of the distance

9.47% () don't know

ANSWER IF DISTANCE FROM HOME TO WORK IS 3 MILES OR LESS.

4. If you were to walk to work, what is your best estimate of the time it would take from the moment you left home to the moment you arrived at work? _____ (minutes)

5. Are there adequate sidewalks or pathways you could use to walk on your trip from home to work?

32.87% () all or almost all the way

13.37% () part of the way

5.47% () there are none

1.47% () don't know

ANSWER IF BUS SERVICE IS AVAILABLE.

6. If you were to take the bus to work, what is your best estimate of the time you would spend doing each of the following?

getting to the bus stop 6.02 (minutes)

waiting for the bus 11.10 (minutes)

riding on the bus 18.73 (minutes)

walking from bus to work 5.98 (minutes)

TOTAL TIME FROM HOME TO WORK 40.36 (minutes)

7. Is it necessary to change buses to travel from your home to work?

24.37 () Yes

37.57 () No

8. Out of ten trips, how often would you expect to have a seat on the bus all the way from home to work?

7.80 times out of ten

9. What is the one-way bus fare on your trip from home to work?

44 cents

() don't know

10. If you were to go by car to work, what is your best estimate of the time you would spend doing each of the following?

walking to the car 1.90 (minutes)

driving or riding 14.93 (minutes)

parking the car 2.53 (minutes)

walking from car to work 2.43 (minutes)

TOTAL TIME FROM HOME TO WORK 21.94 (minutes)

11. What is the parking cost on your trip from home to work? (CHECK ONE AND SPECIFY THE COST.)

73.07 () no charge

14.97 () daily charge \$2.00 (dollars)

2.57 () weekly charge _____ (dollars)

4.87 () monthly charge _____ (dollars)

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year? *No Answer 0.1%*

57.2% () Yes

42.6% () No (IF "NO", GO TO THE NEXT PAGE.)

2. Did you ride a bicycle during the last 30 days? *No Answer 0.3%*

30.1% () Yes

26.3% () No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h") during the last 30 days.

	Did Not Use	1-5 Days	6-10 Days	11-15 Days	16-20 Days	More Than 20 Days	<i>No Answer</i>
a. To work	<i>21.4%</i> ()	<i>4.5%</i> ()	<i>1.4%</i> ()	<i>0.7%</i> ()	<i>0.6%</i> ()	<i>1.4%</i> ()	<i>0.2%</i>
b. To school	<i>25.4%</i> ()	<i>1.4%</i> ()	<i>0.4%</i> ()	<i>0.1%</i> ()	<i>0.2%</i> ()	<i>0.6%</i> ()	<i>2.1%</i>
c. For personal business	<i>14.3%</i> ()	<i>11.5%</i> ()	<i>2.1%</i> ()	<i>0.6%</i> ()	<i>0.5%</i> ()	<i>0.7%</i> ()	<i>0.5%</i>
d. To visit friends	<i>14.3%</i> ()	<i>12.2%</i> ()	<i>1.8%</i> ()	<i>0.3%</i> ()	<i>0.1%</i> ()	<i>0.8%</i> ()	<i>0.6%</i>
e. To go shopping	<i>17.6%</i> ()	<i>9.2%</i> ()	<i>1.4%</i> ()	<i>0.6%</i> ()	<i>0.3%</i> ()	<i>0.4%</i> ()	<i>0.6%</i>
f. To a recreational activity	<i>11.2%</i> ()	<i>12.2%</i> ()	<i>4.3%</i> ()	<i>1.2%</i> ()	<i>0.5%</i> ()	<i>1.2%</i> ()	<i>3.6%</i>
g. Neighborhood riding	<i>3.2%</i> ()	<i>16.6%</i> ()	<i>5.7%</i> ()	<i>1.7%</i> ()	<i>1.1%</i> ()	<i>1.5%</i> ()	<i>0.3%</i>
h. Long distance riding (over 2 hours)	<i>22.4%</i> ()	<i>5.8%</i> ()	<i>0.4%</i> ()	<i>0.3%</i> ()	<i>0.2%</i> ()	<i>0.3%</i> ()	<i>0.5%</i>

Is your work place located less than 6 miles away from your home?

65.3% () Yes

34.7% () No

If your answer is YES, please read below.

If your answer is NO, please go on to page 15.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO BICYCLE-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT BICYCLING TO WORK USING THE NEW FACILITIES.

BICYCLE-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to bicycle-related facilities designed to increase the comfort and safety of cyclists. The improvements consist of (1) providing bicycle paths, (2) reserving street lanes for bicycle use, (3) improving road surfaces, (4) installing secure bicycle lock-up facilities in many areas, and (5) providing better lighting.

On most local streets, a yellow stripe is painted near the right hand side of the road, marking a lane reserved strictly for bicycle use. Separate bicycle paths are built adjacent to all major roadways. These bicycle paths are separated from automobile traffic by a metal guardrail or a grass median. All these paths and street lanes are smoothly paved for a better ride. In addition, high intensity lights are added along the bikeways to provide excellent visibility at night. A large number of secure bike lock-up facilities are provided and, in high employment centers, these consist of enclosed free storage lockers manned by a full-time attendant. Finally, convenient locker, shower and changing facilities are made available.

You are now asked to express your agreement or disagreement with the following statements about bicycling to work, assuming the bicycle facility improvements described above are available to you on your next work trip. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the bicycle-related improvements.)

YOUR RATING OF BICYCLE WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about bicycling to work using the facility improvements described on your previous page.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	
1. Bicycling to work would be pleasant because I could enjoy the scenery and surroundings.	19.1%	() 47.0%	() 18.3%	() 10.0%	() 3.7%	1.7%
2. When biking, it would be convenient to stop and do errands on my way to and from work.	10.4%	() 32.4%	() 18.3%	() 32.5%	() 4.1%	2.3%
3. I could pick up and go anytime I like when I go to work by bicycle.	11.6%	() 51.2%	() 16.2%	() 16.4%	() 2.5%	2.1%
4. Traveling to work by bicycle would be tiring.	6.2%	() 25.1%	() 12.7%	() 41.7%	() 6.4%	1.7%
5. Riding a bicycle to work would be dangerous because of the heavy traffic.	6.0%	() 16.8%	() 12.2%	() 51.7%	() 11.4%	1.9%
6. If I rode the bicycle to work, I would worry about being late.	4.4%	() 17.4%	() 14.9%	() 52.5%	() 8.9%	1.9%
7. I could not rely on riding a bicycle to work in rainy weather.	20.3%	() 64.0%	() 5.8%	() 6.4%	() 1.4%	2.1%
8. I could easily carry my briefcase or other packages when I ride the bicycle to work.	2.7%	() 25.9%	() 12.7%	() 45.4%	() 11.0%	2.3%
9. It would be uncomfortable to travel to work by bicycle because of rough and bumpy surfaces.	2.3%	() 8.9%	() 14.4%	() 59.6%	() 12.0%	2.3%
10. I could get to work quickly when I go by bicycle.	8.7%	() 46.7%	() 17.4%	() 20.8%	() 3.9%	2.5%
11. I would worry about being mugged or assaulted when I travel to work by bicycle.	2.9%	() 11.6%	() 16.0%	() 56.4%	() 11.0%	2.1%
12. I would worry about being injured in an accident if I ride the bicycle to work.	4.8%	() 17.6%	() 15.8%	() 51.2%	() 8.3%	2.3%
13. It would be relaxing to travel to work by bicycle.	8.7%	() 40.9%	() 23.2%	() 21.4%	() 2.7%	3.1%
14. I would dislike traveling to work by bicycle because of the many stops and delays at intersections.	2.9%	() 18.9%	() 20.7%	() 50.2%	() 5.0%	2.3%
15. Riding the bicycle to work would be unsafe because of lack of bike paths that are separated from motor traffic.	5.8%	() 13.7%	() 11.4%	() 52.1%	() 13.5%	2.5%
16. Going by bicycle to work would be dangerous because motorists are inconsiderate of bicyclists.	7.3%	() 25.1%	() 15.8%	() 41.8%	() 7.9%	2.1%
17. When bicycling to work I would worry about perspiring or soiling my clothes.	4.8%	() 29.7%	() 21.6%	() 37.2%	() 4.4%	2.3%
18. Riding a bicycle to work would give healthful exercise.	35.1%	() 56.2%	() 3.9%	() 1.9%	() 6.4%	2.5%
19. Parking, locking and unlocking my bicycle at work would be no trouble.	15.3%	() 58.7%	() 10.4%	() 11.0%	() 2.3%	2.3%
20. After parking my bicycle I would have to walk a long distance when I go to work.	0.4%	() 2.5%	() 11.0%	() 64.5%	() 19.1%	2.5%
21. I would worry about my bicycle being stolen at work.	5.4%	() 18.0%	() 11.8%	() 51.5%	() 11.0%	2.3%
22. It would be inexpensive to buy and operate a bicycle.	18.7%	() 48.7%	() 11.2%	() 14.9%	() 4.2%	1.9%

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR BICYCLING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for the following alternative means of travel for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and your place of work, rank the three remaining alternatives only.)

- a. Assume the bicycle facilities are in place. please rank the following means of travel for your next trip to work.

		#2	#3	#4	NO ANSWER
<i>Rd. 422 = 1</i>	() bicycle with improved facilities	42.0%	23.6%	9.3%	6.8%
18.3%	() walk	14.7%	30.9%	29.7%	6.6%
18.1%	() bus/transit	23.6%	24.1%	22.8%	24.5%
5.0%	() car (driver or passenger)	12.7%	14.1%	12.9%	3.7%
56.6%					

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$ 1.50 per gallon. (Please rank again.)

31.5%	() bicycle with improved facilities	34.3%	19.5%	8.7%	6.0%
19.9%	() walk	19.5%	27.3%	26.4%	6.9%
11.8%	() bus/transit	21.4%	24.8%	18.3%	23.7%
34.4%	() car (driver or passenger)	17.4%	20.8%	21.4%	6.0%

- c. Suppose that the bicycle facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

42.7%	() bicycle with improved facilities	29.7%	13.9%	7.5%	6.2%
23.0%	() walk	27.5%	22.2%	20.7%	6.6%
16.0%	() bus/transit	19.1%	27.6%	13.7%	23.6%
15.6%	() car (driver or passenger)	16.2%	28.4%	32.9%	6.9%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

56.1% = % Trips	() bicycle with improved facilities	2.0
60.8% = % Trips	() walk	1.9
71.2% = % Trips	() bus/transit	1.1
29.2% = % Trips	() car (driver or passenger)	5.0
32.1% = 10/10	(10) TOTAL TRIPS	272

(Means)

10.0

LIVING NEARER TO TRAVEL DESTINATIONS

Many planners maintain that the use of automobiles has greatly increased the levels of air pollution, energy consumption, traffic congestion and costly street and highway expenditures. It has been suggested that in order to reduce these problems people must live nearer to their places of employment, shopping, school and recreation.

Some communities have been designed with this compact land-use arrangement in mind. Their layout is such that most shopping and personal business trips can be accommodated within a six block ($\frac{1}{2}$ mile) distance, and most work trips are within two miles of home.

Suppose you live or moved to one such community. Suppose further that special bicycle paths and pedestrian pathways are provided so that it is possible to walk or bicycle to work without having to cross streets that carry heavy motor vehicle traffic; bicycle storing and lock-up facilities are provided in large numbers, free of charge, throughout the area; convenient bus service is available to work places; there are no special restrictions on the use of automobiles.

Now, please turn to the following pages and express how this compact land-use arrangement would affect the way you feel about using WALK, BICYCLE, BUS or CAR for your work trip.

YOU HAVE JUST READ ABOUT AN ASSUMED LAND USE AND TRANSPORTATION CONDITION. IMAGINE THAT THIS CONDITION EXISTS ON YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statement:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No
I would like to live in this type of community.	28.9%	36.3%	18.5%	7.9%	4.9%	3.5%

2. Please indicate your preference for each of the following transportation alternatives on your next trip to work, by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative, assuming the land-use arrangement described above. Please repeat the process for each statement (a) through (d) below.

- a. Assume the living conditions and special transportation facilities described on the previous page exist for your next trip to work, and assume further that your trip to work is approximately one mile away. (Please rank the following means of transportation.)

Ranked #1		#2	#3	#4	NO ANSWER
34.3%	() walk	29.3%	16.8%	14.1%	5.5%
33.1%	() bicycle	37.0%	14.0%	9.1%	6.2%
7.6%	() bus or transit	16.1%	35.7%	30.1%	10.5%
22.3%	() car (driver or passenger)	10.6%	25.9%	35.5%	5.7%

- b. Now suppose that in addition to the conditions described in (a) above, the price of gasoline increased to \$1.50 per gallon. (Please rank again.)

35.0%	() walk	32.5%	15.1%	12.0%	5.4%
37.0%	() bicycle	35.9%	13.4%	7.6%	6.1%
10.6%	() bus or transit	14.6%	42.4%	21.9%	10.5%
15.3%	() car (driver or passenger)	10.0%	21.3%	47.3%	6.1%

- c. Assume the conditions described in (a) above and assume that in addition, the speed limit was reduced to 15 mph in the community. (Please rank.)

40.0%	() walk	35.0%	12.5%	7.0%	3.5%
38.2%	() bicycle	38.0%	10.7%	7.2%	5.9%
8.7%	() bus or transit	13.6%	42.9%	24.1%	10.7%
14.2%	() car (driver or passenger)	8.6%	24.0%	47.0%	6.2%

- d. Assume again the conditions described in (a) above but this time, assume no parking was available at your work place. (Please rank.)

41.2%	() walk	34.6%	13.4%	5.9%	4.7%
35.6%	() bicycle	39.4%	13.0%	5.3%	6.7%
14.9%	() bus or transit	14.6%	50.9%	9.1%	10.5%
5.9%	() car (driver or passenger)	4.2%	14.1%	68.0%	7.8%

WE WOULD LIKE TO ASK YOU SEVERAL IMPORTANT FACTS ABOUT YOURSELF. THESE ARE IMPORTANT IN PROJECTING YOUR VIEWS TO THE TOTAL POPULATION OF YOUR COMMUNITY. YOUR ANSWERS WILL NOT BE IDENTIFIED WITH YOUR NAME AND ALL RESPONSES WILL BE KEPT CONFIDENTIAL.

1. How old are you? 37.2 (age) mean
2. What is your sex? 51.7% () Male 48.3% () Female
3. How many adults (18 or over) including yourself are there in your household? 2.0
4. How many minors (under 18) are there in your household? 0.8
5. Do you have a valid driver's license? 93.8% () Yes 5.8% () No
6. How many licensed drivers (including yourself) are there in your household? 2.0
7. How many automobiles are there in your household? 1.8
8. Do you own a bicycle? 57.3% () Yes 42.7% () No
9. How many bicycles are there in your household? 1.6
10. What type of structure do you live in? No Answer - 0.6%

<u>66.3%</u> () single family	<u>0.9%</u> () low rise apartment (4 to 8 stories)
<u>5.0%</u> () duplex	<u>5.5%</u> () high rise apartment (more than 8 stories)
<u>8.4%</u> () townhouse	<u>2.9%</u> () other _____ (please specify)
<u>10.4%</u> () walk-up apartment (3 stories or less)	
11. What is your educational background? (CHECK ONE)

<u>1.9%</u> () completed elementary school	<u>21.8%</u> () college or technical school graduate
<u>6.3%</u> () some high school	<u>7.7%</u> () some graduate school
<u>17.7%</u> () high school graduate	<u>17.0%</u> () completed graduate degree(s)
<u>27.0%</u> () some college or technical school	
12. Please indicate your work group below: No Answer - 0.6%

<u>86.7%</u> () work 5 or more days a week	<u>2.0%</u> () work 1-2 days a week
<u>9.7%</u> () work 3-4 days a week	<u>1.0%</u> () presently unemployed
13. What is your occupation? (CHECK ONE) No Answer 0.5%

<u>44.6%</u> () professional-technical	<u>6.3%</u> () sales worker
<u>11.7%</u> () managerial	<u>14.2%</u> () secretarial-clerical-cashier
<u>17.6%</u> () blue collar	<u>4.6%</u> () other _____ (please specify)
	<u>0.5%</u> <u>STUDENT</u>

14. Does your job require you to dress up? (CHECK ONE) *No Answer 1.4%*

50.59% () usually 15.52% () sometimes 32.62% () not usually

15. How many workers including yourself are in your household? 1.8

16. Please check the category which includes your approximate family income before taxes. *No Answer* 6.15

3.07% () \$5,000 and under

8.92 () \$15,001 - \$17,500

3. 89% () \$5,001 - \$7,500

8.32 () \$17,501 - \$20,000

5.776 () \$7,501 - \$10,000

15.92() \$20,001 - \$25,000 X: 24,720

6.99% () \$10,001 - \$12,500

25.8% (), \$25,001 - \$50,000

9.17, () \$12,501 - \$15,000

6.596) Over \$50,000

In the space below we would welcome any other comments you would like to make. Enclose additional pages if you like.

We would like to express our sincere thanks to you for completing this questionnaire.

Is your work place located less than 3 miles from your home?

4.3% (Yes

51.7% No ()

5 If your answer is YES, please read below.

If your answer is NO, please go on to page 18.

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO A NEW TRANSPORTATION IMPROVEMENT. THIS IMPROVEMENT, DESCRIBED BELOW, DOES NOT EXIST NOW. IT CONCERNS IMPROVEMENTS TO PEDESTRIAN-RELATED FACILITIES. AFTER YOU READ THE DESCRIPTION, YOU ARE ASKED TO EXPRESS YOUR OPINIONS ABOUT WALKING TO WORK USING THE NEW FACILITIES.

PEDESTRIAN-RELATED FACILITY IMPROVEMENTS

Suppose the city introduces several improvements to pedestrian-related facilities designed to increase the comfort and safety of pedestrians. The improvements consist of (1) providing pedestrian pathways, (2) improving sidewalks, (3) providing better lighting, and (4) making traffic signals more pedestrian-oriented.

Separate pedestrian ways or walkways are built adjacent to all major roadways. These pathways are separated from automobile traffic by trees or grass medians. At all busy street crossings, pedestrians will be able to change traffic lights in their favor. All existing sidewalks are repaired to make walking easier. High intensity lights are added along the pathways to provide excellent visibility at night. Finally, the walkways are enhanced by the presence of water fountains, shade trees, benches and pedestrian-oriented stands with flowers, newspapers and refreshments.

You are now asked to express your agreement or disagreement with the following statements about walking to work, assuming the facility improvements described above are available to you on your next trip to work. (You will note that the list of statements is the same as that used earlier. The purpose of this last rating is to find out how you feel about the pedestrian-related improvements.)

NOW WE WOULD LIKE TO ASK SEVERAL QUESTIONS CONCERNING YOUR BICYCLING ACTIVITIES.

1. Did you ride a bicycle at least once during the past year?

() Yes

() No (IF "NO", GO TO THE NEXT PAGE.)

2. Did you ride a bicycle during the last 30 days?

() Yes

() No (IF "NO", GO TO NEXT PAGE.)

3. We would like to know how often you use the bicycle for each of the following trip purposes. Place an "X" under your best estimate of the number of days you have used the bicycle for each trip purpose ("a" through "h") during the last 30 days.

	<u>Did Not Use</u>	<u>1-5 Days</u>	<u>6-10 Days</u>	<u>11-15 Days</u>	<u>16-20 Days</u>	<u>More Than 20 Days</u>
a. To work	()	()	()	()	()	()
b. To school	()	()	()	()	()	()
c. For personal business	()	()	()	()	()	()
d. To visit friends	()	()	()	()	()	()
e. To go shopping	()	()	()	()	()	()
f. To a recreational activity	()	()	()	()	()	()
g. Neighborhood riding	()	()	()	()	()	()
h. Long distance riding (over 2 hours)	()	()	()	()	()	()

YOUR RATING OF WALK WITH FACILITY IMPROVEMENTS

Please rate the statements below concerning how you would feel about walking to work using the facility improvements described on the previous page, even if you did not walk on your last trip to work.

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	No Answer
1. Walking to work would be pleasant because I could enjoy the scenery and surroundings.	35.5%	44.0%	12.8%	5.2%	1.4%	1.1%
2. When walking, it would be convenient to stop and go errands on my way to and from work.	16.4%	35.5%	15.0%	29.0%	2.7%	1.4%
3. I could pick up and go anytime I like when I walk to work.	15.8%	49.3%	12.0%	18.6%	2.7%	1.6%
4. Walking to work would be tiring.	4.9%	21.3%	15.8%	42.7%	13.7%	1.6%
5. Walking to work would be dangerous because of the heavy traffic.	4.4%	9.0%	8.7%	60.4%	16.1%	1.4%
6. If I walked to work I would worry about being late.	6.3%	23.2%	14.8%	45.4%	8.7%	1.6%
7. I could not rely on walking to work in rainy weather.	15.3%	52.0%	8.7%	18.3%	4.1%	1.6%
8. I could easily carry my briefcase or other packages when I walk to work.	7.7%	45.1%	10.4%	30.3%	4.9%	1.6%
9. It would be uncomfortable to walk to work because of rough or bumpy walking surfaces.	3.3%	6.0%	9.3%	60.4%	19.4%	1.6%
10. I could get to work quickly when I walk.	9.3%	31.4%	14.2%	38.0%	5.7%	1.4%
11. I would worry about being mugged or assaulted when I walk to work.	3.8%	15.0%	13.9%	54.2%	11.2%	1.9%
12. I would worry about being injured in an accident if I walk to work.	2.5%	7.4%	12.3%	62.5%	13.9%	1.4%
13. It would be relaxing to walk to work.	21.0%	47.6%	15.3%	12.0%	2.2%	1.9%
14. I would dislike walking to work because of the many delays at intersections.	1.1%	7.7%	13.1%	63.1%	13.4%	1.6%
15. Walking to work would be unsafe because of the lack of pathways that are separated from motorized traffic.	3.0%	7.7%	9.6%	57.1%	19.9%	2.7%
16. Walking to work would be dangerous because motorists are inconsiderate of pedestrians.	3.8%	16.4%	13.1%	52.8%	12.0%	1.9%
17. When walking to work I would worry about perspiring or soiling my clothes.	4.4%	24.6%	16.4%	44.2%	9.0%	1.4%
18. Walking to work would give healthful exercise.	43.4%	48.2%	4.1%	2.2%	0.5%	1.6%

YOU HAVE JUST RATED TRANSPORTATION IMPROVEMENTS FOR WALKING. PLEASE INDICATE YOUR TRANSPORTATION PREFERENCES BELOW FOR YOUR NEXT WORK TRIP.

1. Please indicate your preference for each of the following alternative means of travel for your next trip to work, by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Repeat the process for each statement (a) through (c) below.

(If bus service is not available between your home and work place, rank the three remaining alternatives only.)

Ranked #1	a. Assume the walk facilities are in place. Please rank the following means of travel for your next trip to work.	#2	#3	#4	NO ANSWER
30.0%	() walk with improved facilities	24.9%	25.7%	12.0%	7.4%
9.8%	() bicycle	35.0%	30.9%	15.8%	3.5%
4.6%	() bus/transit	23.8%	13.1%	28.1%	30.4%
52.7%	() car (driver or passenger)	8.2%	21.3%	13.4%	4.4%

- b. Now assume the same condition as (a) above except that the price of gasoline has increased to \$1.50 per gallon. (Please rank again.)

36.9%	() walk with improved facilities	25.4%	19.9%	10.7%	7.1%
17.8%	() bicycle	34.9%	26.0%	12.6%	8.7%
10.4%	() bus/transit	21.6%	20.2%	19.1%	23.7%
32.0%	() car (driver or passenger)	9.8%	24.3%	26.8%	7.1%

- c. Suppose that the walk facilities are in place and the price of gasoline increased to \$3.00 per gallon. (Please rank.)

43.3%	() walk with improved facilities	31.1%	12.8%	6.8%	6.0%
26.2%	() bicycle	37.5%	16.9%	10.4%	9.0%
15.3%	() bus/transit	15.0%	27.3%	13.7%	23.7%
12.6%	() car (driver or passenger)	7.4%	33.1%	37.9%	9.0%

2. If only the alternatives listed below were available for your next ten trips to work, how many of the ten trips would you make using each alternative? (Write the number of trips in the box next to each alternative.)

41.7% = % TRIPS	() walk with improved facilities	3.2
66.0% = % TRIPS	() bicycle	1.2
70.6% = % TRIPS	() bus/transit	1.0
32.4% = % TRIPS	() car (driver or passenger)	4.6
29.8% = 10/10 "	(10) TOTAL TRIPS	10.0

(Means)

NOW WE WOULD LIKE TO LEARN YOUR REACTIONS TO AN ASSUMED REGULATION CONCERNING AUTOMOBILES. AFTER YOU READ THE DESCRIPTION, YOU WILL BE ASKED TO ANSWER A FEW QUESTIONS ABOUT YOUR PREFERENCE FOR ALTERNATIVE MEANS OF TRANSPORTATION.

AUTO CONGESTION FEE

It is decided that in order to reduce congestion and lower fuel usage, a fee of \$1.00 will be assessed to the owners of automobiles operating during the morning (7-9 a.m.) and evening (4-6 p.m.) rush hours. This means that you would be charged up to \$2.00 per day if you operate a motor vehicle during these peak travel periods. Billing would be made on a monthly basis using an automated billing process.

PLEASE TURN TO THE FOLLOWING PAGE.

YOU HAVE JUST READ AN ASSUMED FEE ON AUTO USAGE. IMAGINE THAT THIS SITUATION EXISTS FOR YOUR NEXT WORK TRIP.

1. Please indicate your agreement or disagreement with the following statements:

	Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	Assess
a. I believe that a congestion fee of two dollars per day is desirable.	9.1%	() 11.6%	() 7.0%	() 21.9%	() 48.0%	2.4%
b. It would be inexpensive to travel by car with a congestion fee of two dollars per day.	4.0%	() 4.0%	() 7.5%	() 28.9%	() 52.4%	32%

2. Please indicate your preference for each of the following transportation alternatives for your next trip to work by placing a "1" next to the alternative you prefer the most, a "2" next to your second most preferred alternative, a "3" next to your third most preferred alternative, and a "4" next to your least preferred alternative. Please repeat this for each of the statements (a) through (d) below.

(If bus service is not available for your work trip, please rank the three remaining alternatives below.)

a. Assume the congestion fee of \$2.00 per day described on the preceding page was in effect. Please rank the following means of transportation for your next trip to work.

Ranked #1		#2	#3	#4	Assess
18.1%	() walk	17.7%	27.1%	23.8%	8.3%
16.6%	() bicycle	34.5%	32.2%	8.1%	8.6%
20.7%	() bus or transit	25.1%	12.4%	10.3%	30.7%
41.7%	() car (driver or passenger)	14.4%	18.8%	19.9%	5.2%

b. Assume that instead of \$2.00, the congestion fee increased to \$4.00 per day. (Please rank again.)

19.9%	() walk	20.7%	25.0%	25.8%	8.0%
21.0%	() bicycle	37.2%	27.6%	5.5%	8.7%
25.6%	() bus or transit	20.7%	16.2%	7.3%	30.2%
30.0%	() car (driver or passenger)	13.3%	21.0%	27.2%	6.3%

c. Assume that in addition to the congestion fee of \$2.00 per day the price of gasoline increases to \$1.50 per gallon. (Please rank.)

19.7%	() walk	21.5%	24.6%	25.3%	8.9%
21.8%	() bicycle	35.9%	27.5%	5.9%	8.9%
24.0%	() bus or transit	21.9%	16.2%	7.7%	30.2%
30.6%	() car (driver or passenger)	12.2%	21.4%	28.8%	7.4%

d. Assume that the congestion fee of \$2.00 per day was in effect, and assume further that your employer allowed you to arrive before 7:00 a.m. and leave before 4:00 p.m., or to arrive after 9:00 a.m. and leave after 6:00 p.m. (Please rank.)

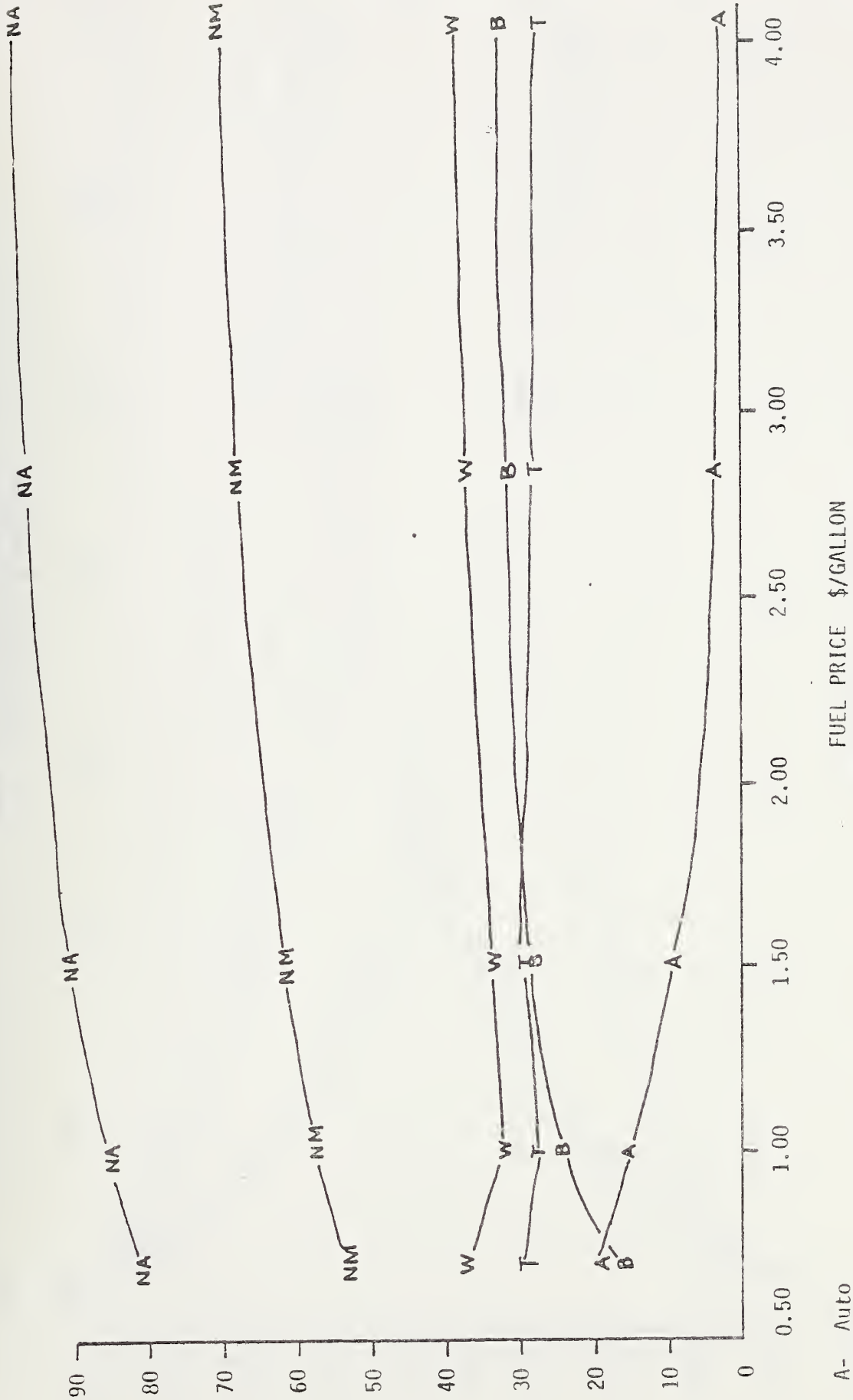
15.2%	() walk	14.1%	30.1%	31.1%	9.5%
9.2%	() bicycle	35.5%	37.2%	8.9%	7.2%
10.0%	() bus or transit	34.2%	11.2%	13.6%	31.0%
61.6%	() car (driver or passenger)	7.9%	282	11.3%	5.2%

Stated Preferences for Alternative Scenarios

FIGURE B-1

AUSTIN

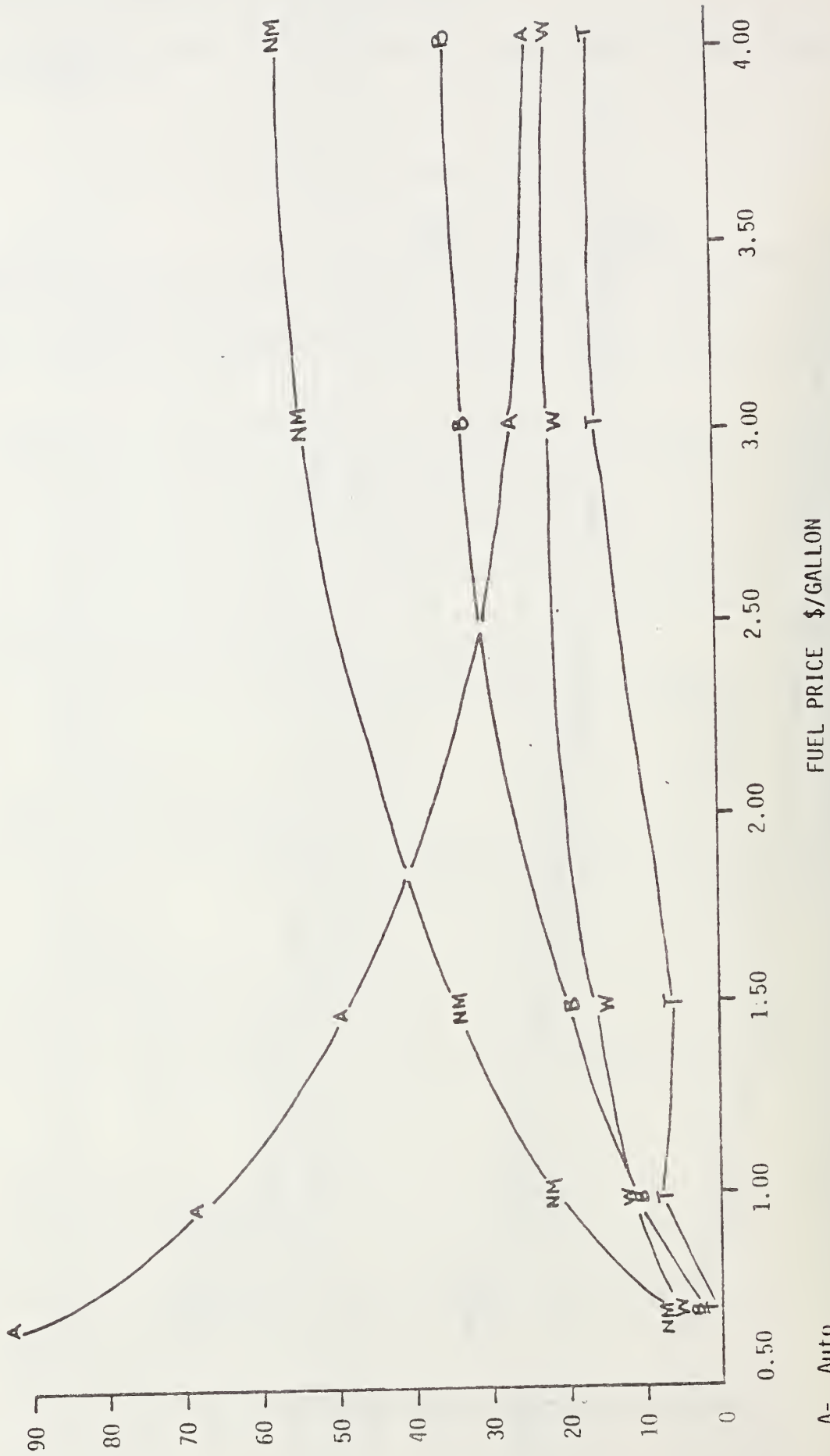
MODE CHOICE vs. FUEL PRICE



School Trips

Figure B-2

COLUMBUS
MODE CHOICE vs. FUEL PRICE



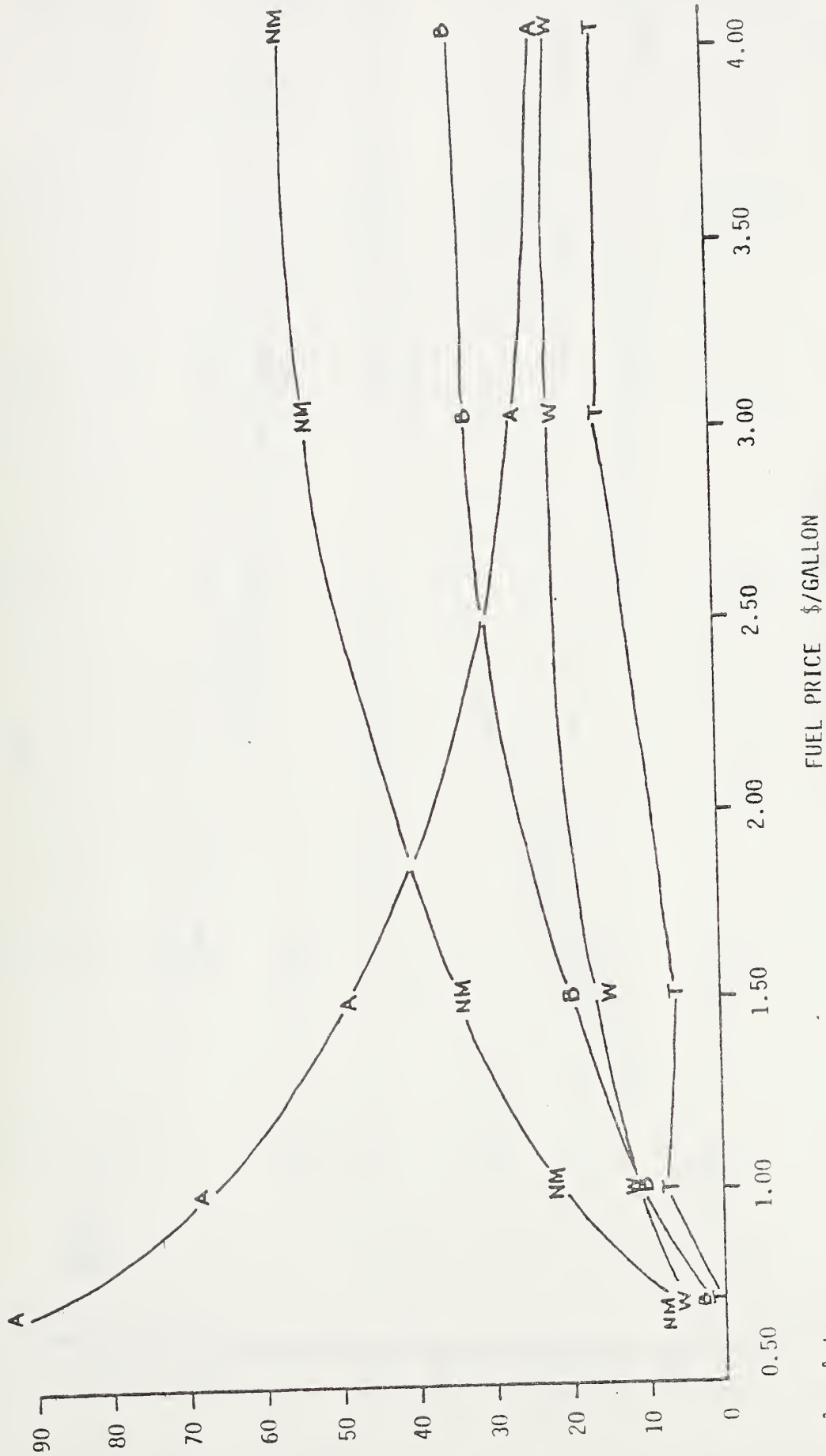
A- Auto
B- Bike
T- Transit
W- Walk
NM- Non-Auto

Work Trips

FIGURE B-3

DENVLR

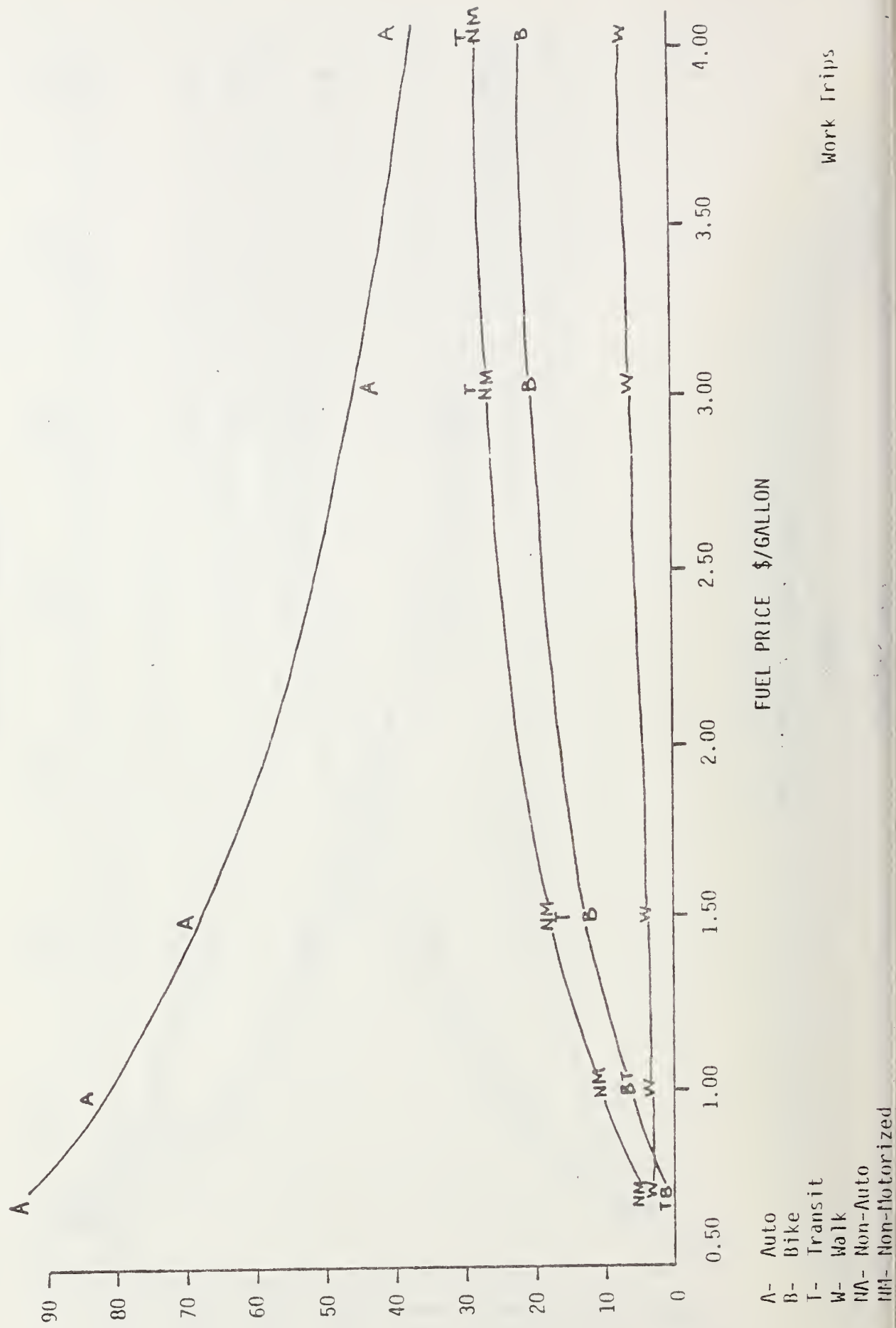
MODE CHOICE vs. FUEL PRICE



Work Trips

- A- Auto
- B- Bike
- T- Transit
- W- Walk
- NA- Non-Auto
- NM- Non-Motorized

FIGURE B-4
HUNTINGTON BEACH
MODE CHOICE vs. FUEL PRICE

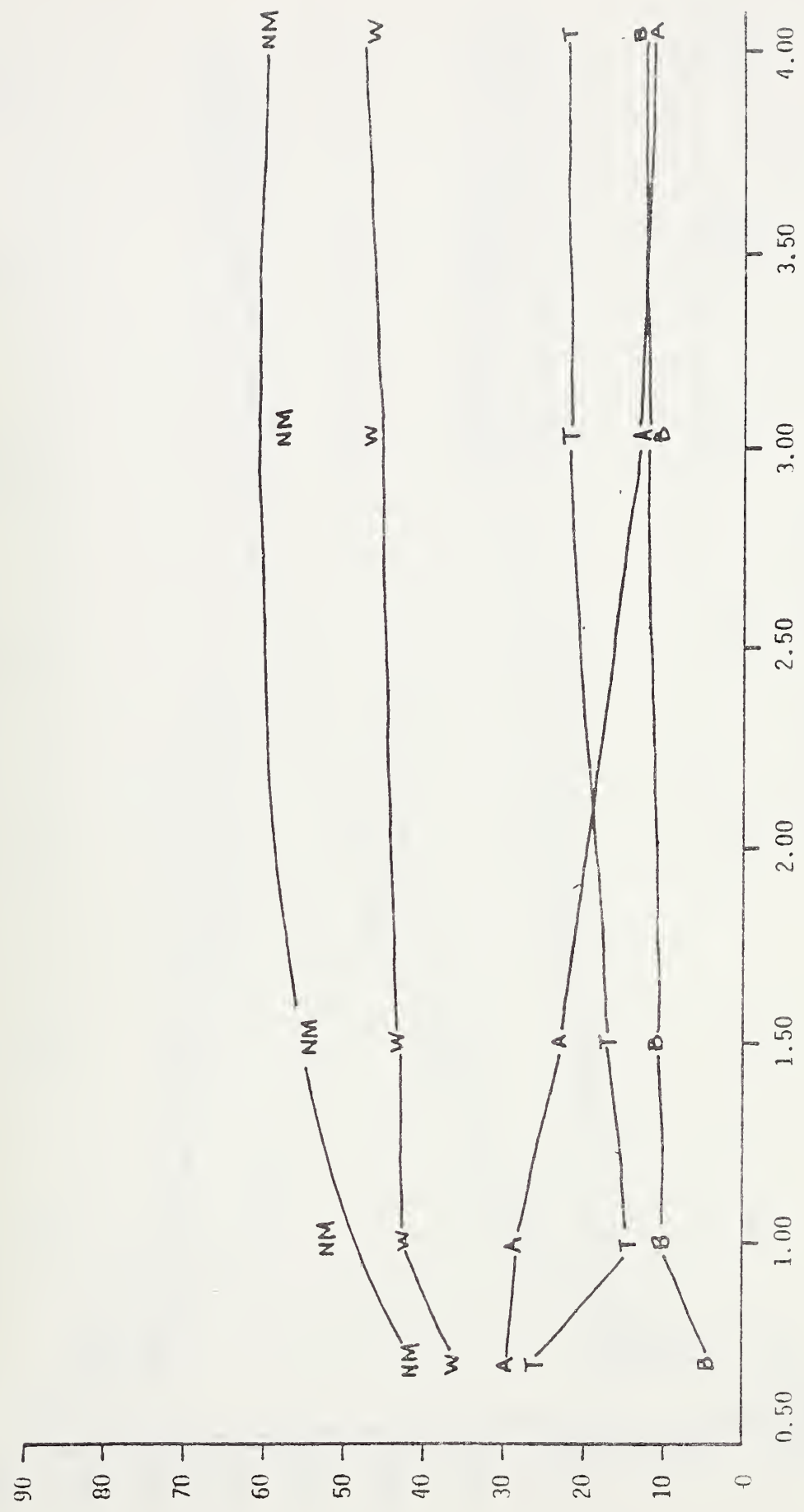


Work Trips

HA - Non-Auto
 NM - Non-Motorized

FIGURE B-5

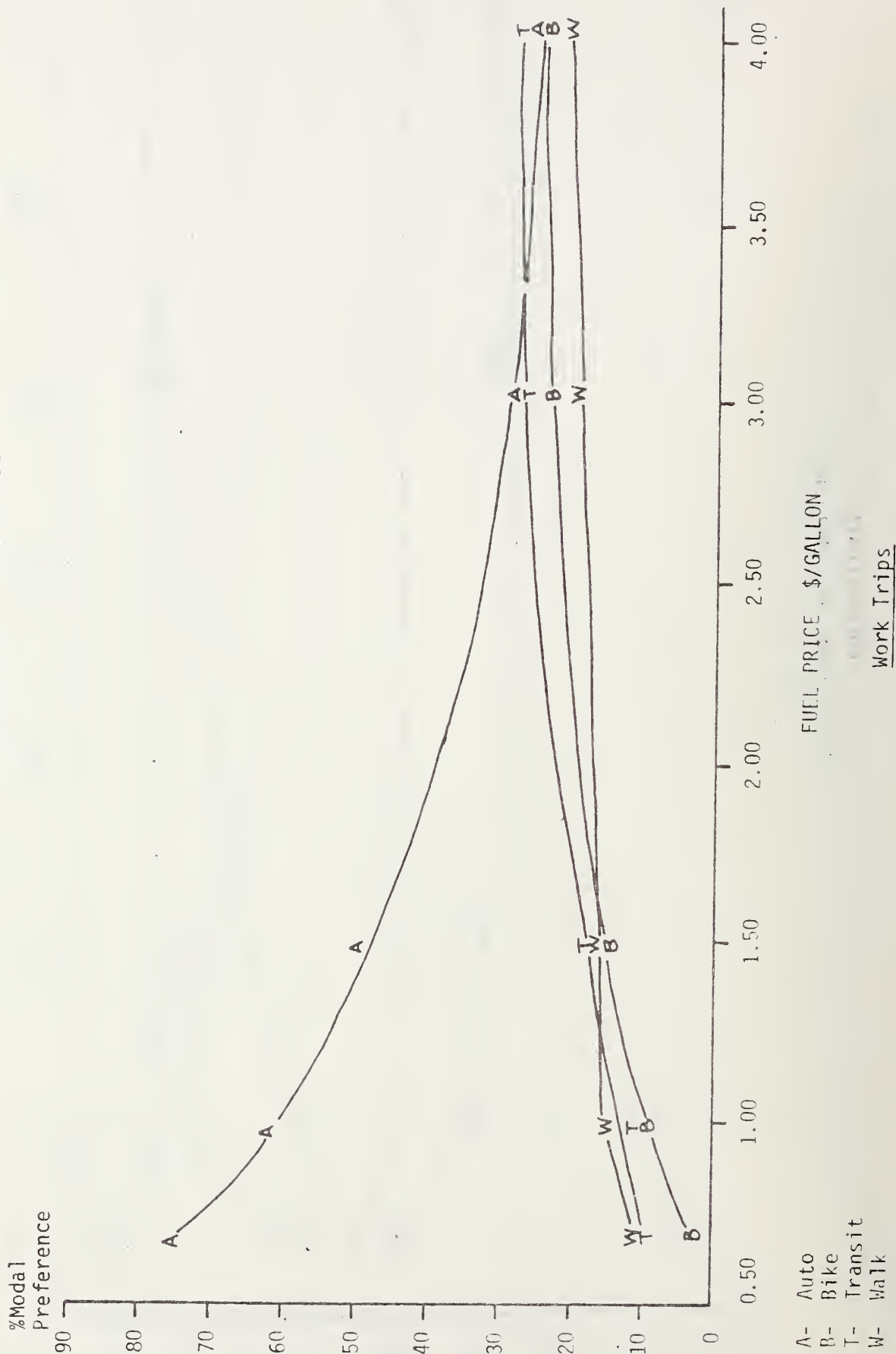
PHILADELPHIA
 MODF CHOICE vs. FUEL PRICE



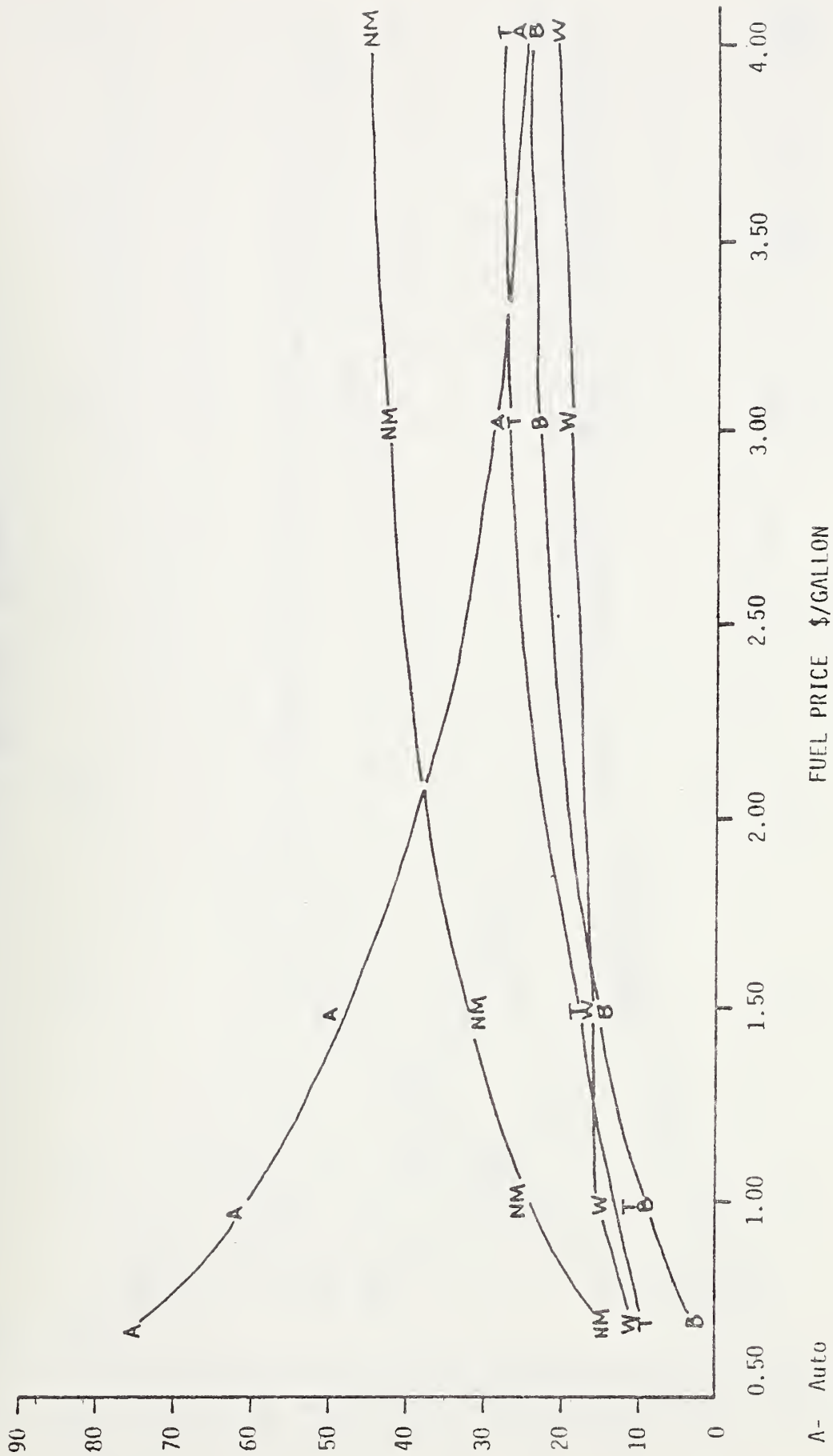
A- Auto
 B- Bike
 T- Transit
 W- Walk
 NA- Non-Auto
 NM- Non-Motorized

Work Trips

Total (4 Cities)
MODE CHOICE vs. FUEL PRICE



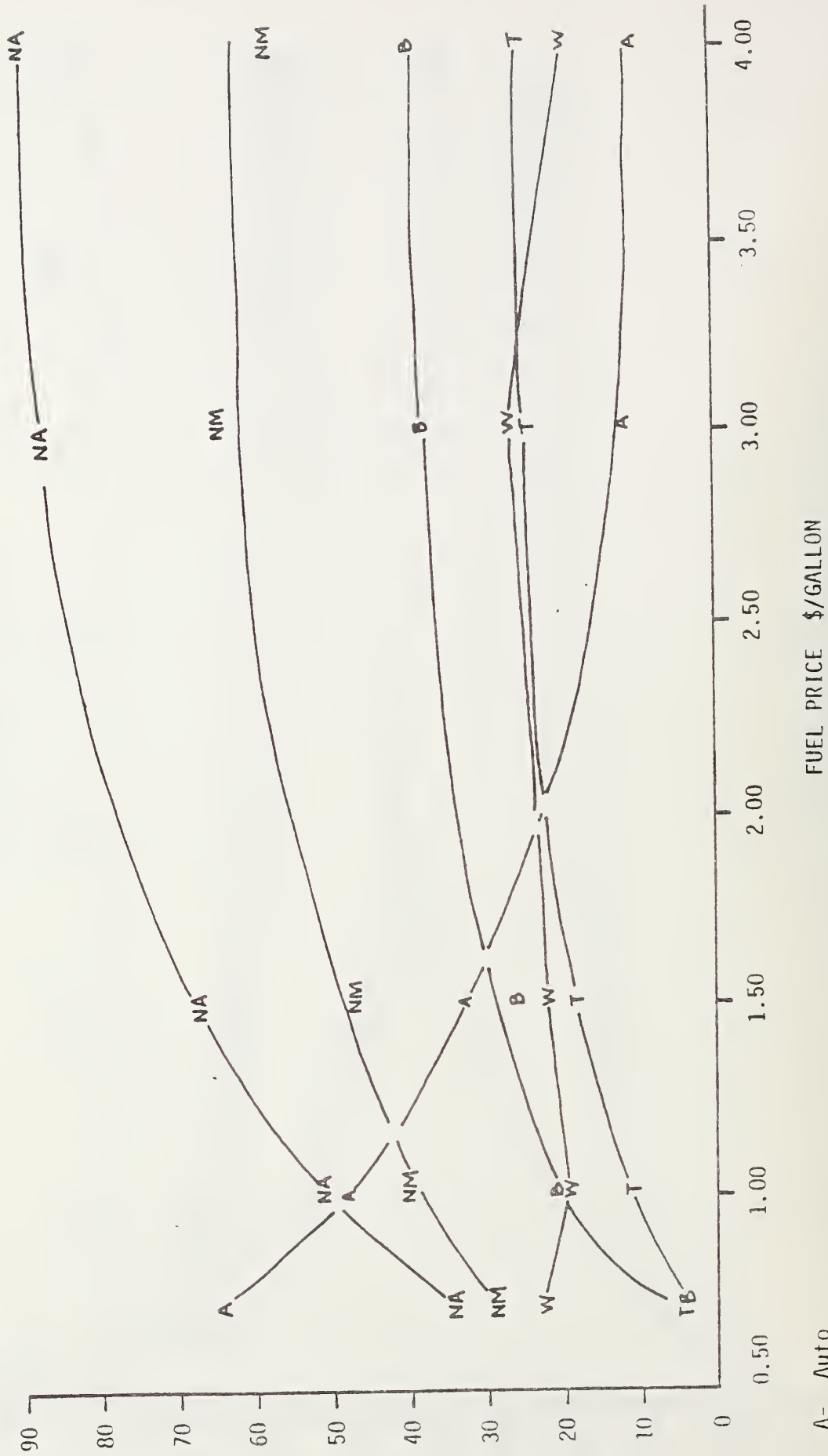
Total (4 Cities) MODE CHOICE vs. FUEL PRICE



Work Trips

FIGURE B-7

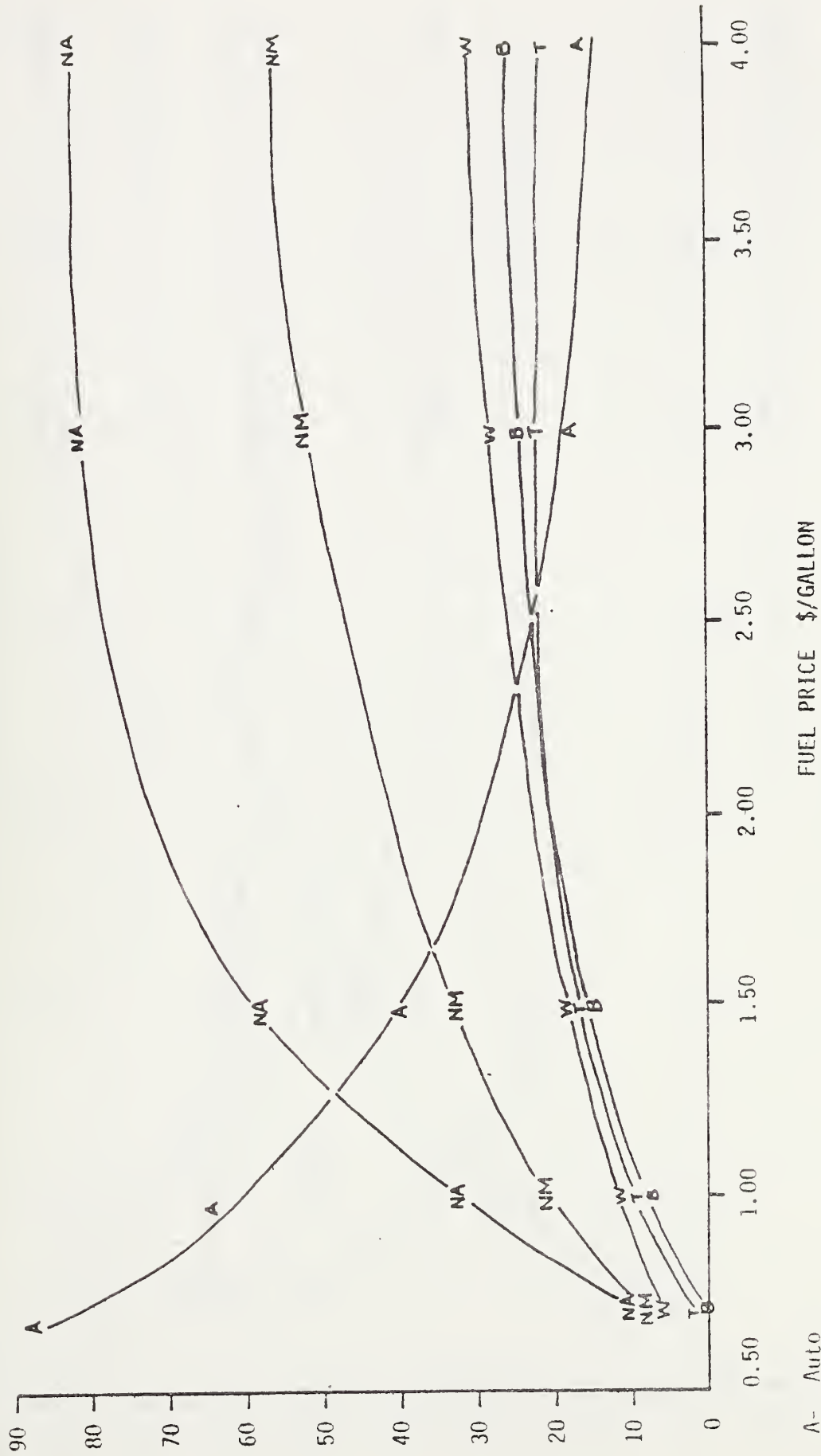
AUSTIN
MODE CHOICE vs. FUEL PRICE



A- Auto
B- Bike
T- Transit
W- Walk
NA- Non-Auto

FIGURE B-8

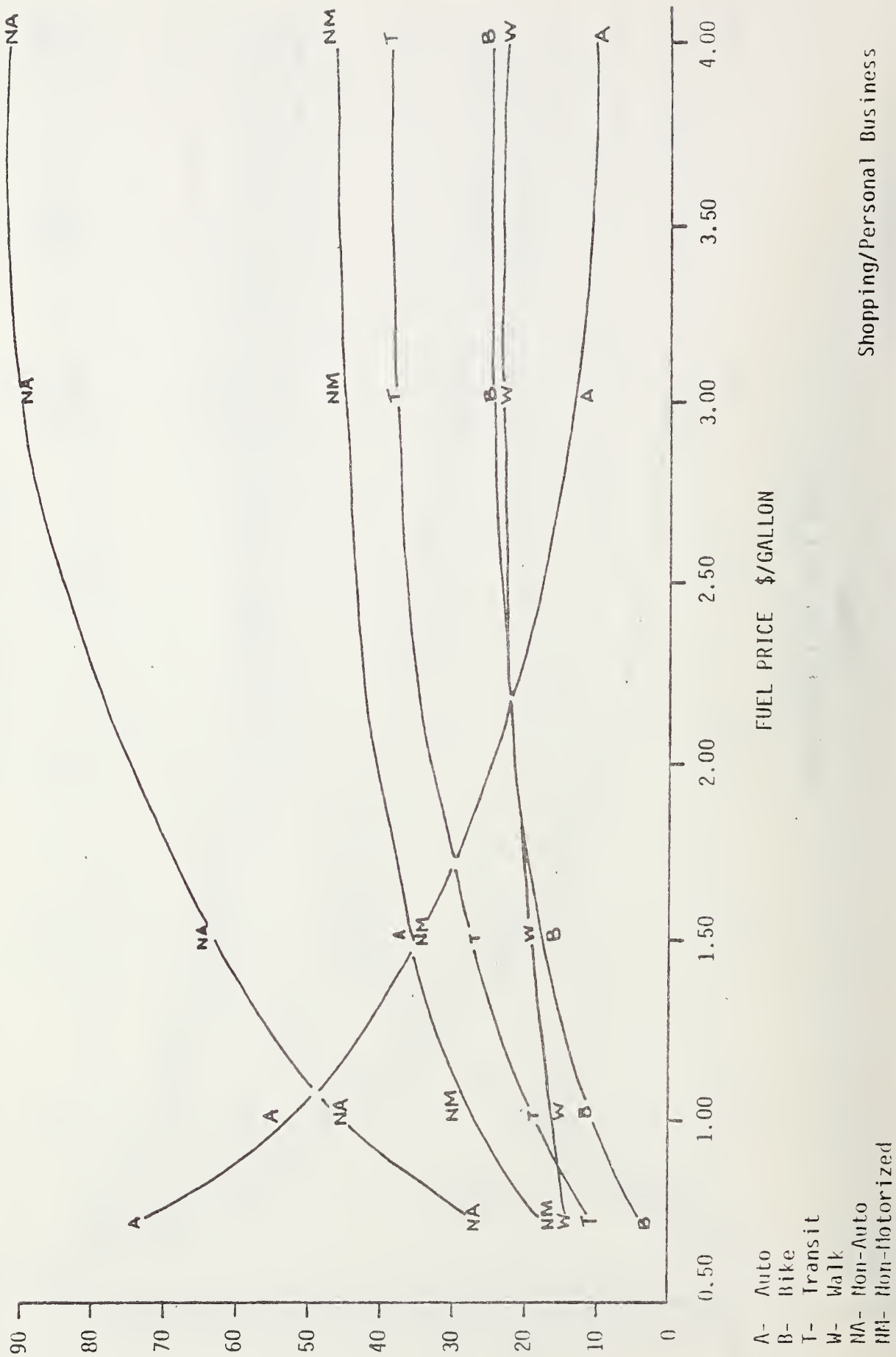
COLUMBUS
MODE CHOICE vs. FUEL PRICE



A- Auto
B- Bike
T- Transit
W- Walk
NA- Non-Auto
NM- Non-Motorized

FIGURE B-9

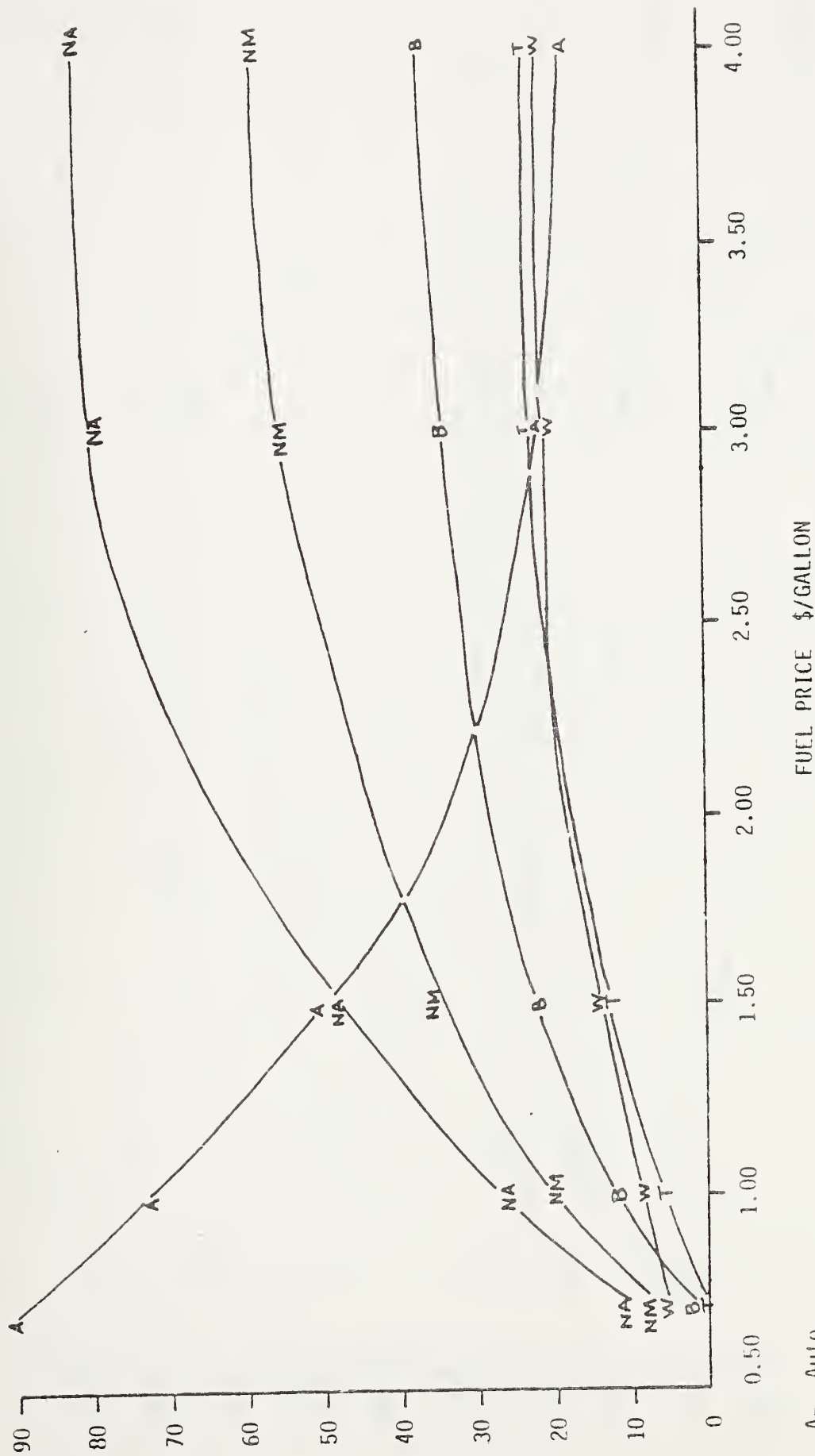
DENVER
MODE CHOICE VS. FUEL PRICE



Shopping/Personal Business

FIGURE B-10

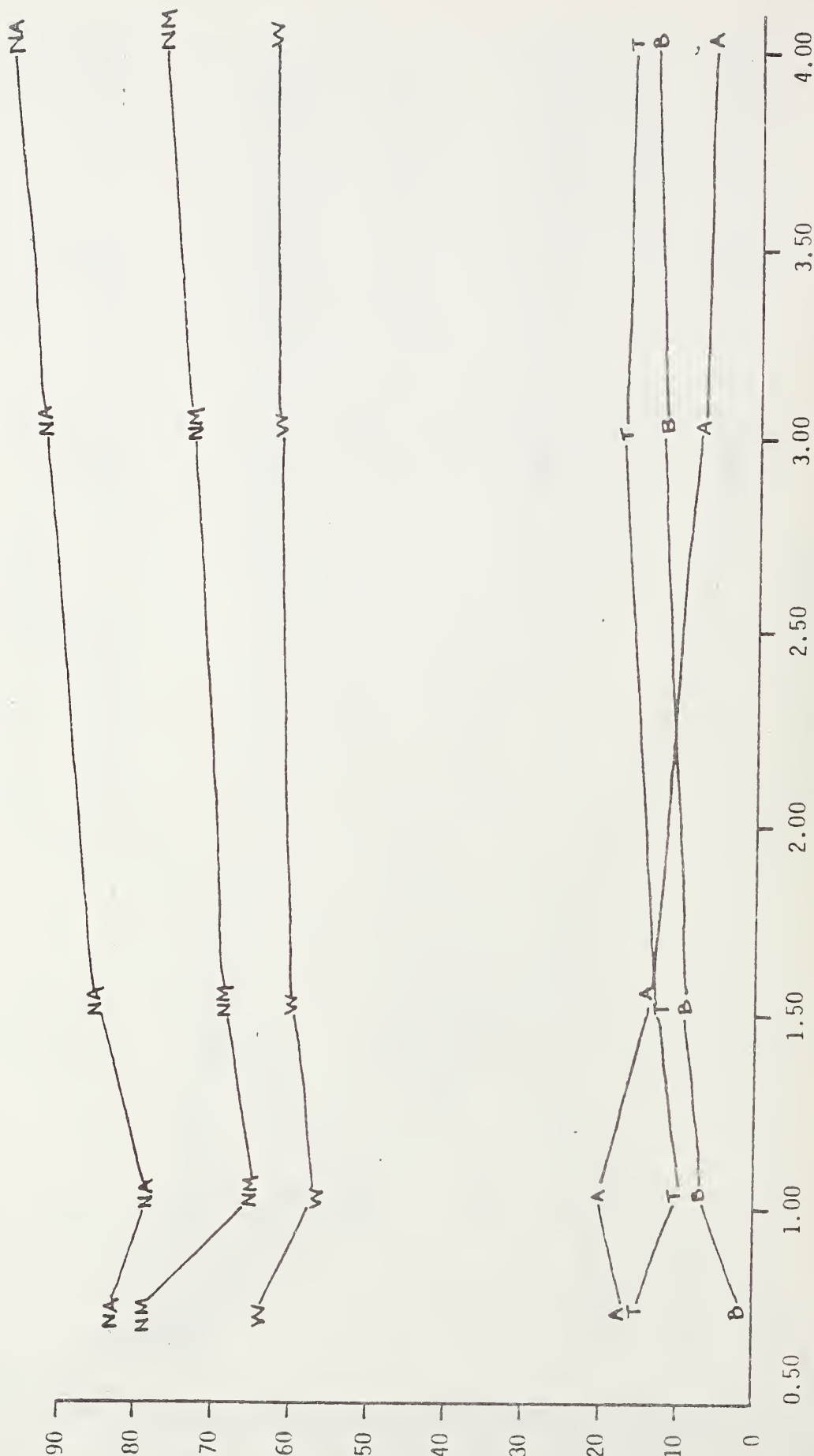
HUNTINGTON BEACH
MODE CHOICE VS. FUEL PRICE



Shopping/Personal Business

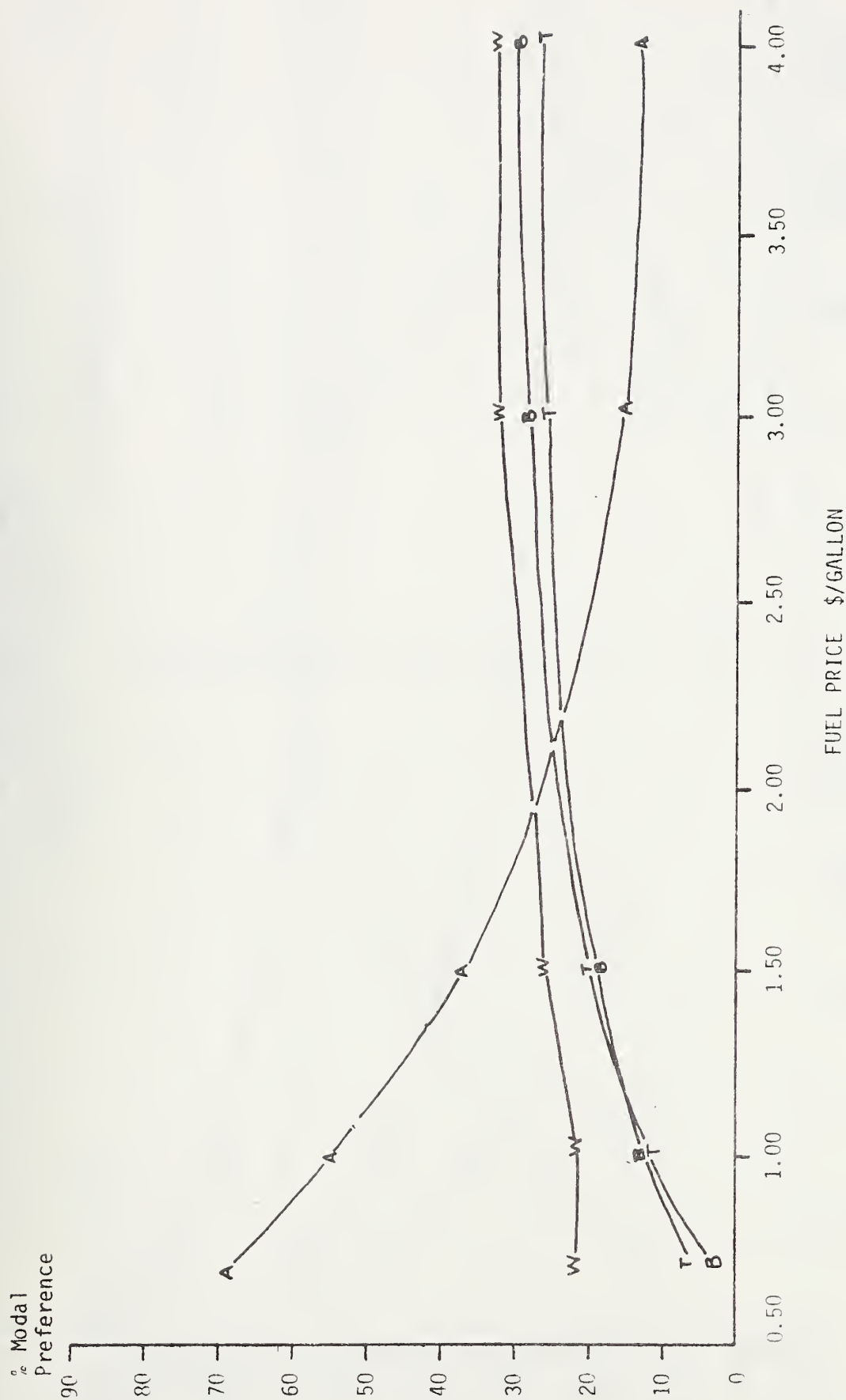
FIGURE B-11

PHILADELPHIA
MODE CHOICE vs. FUEL PRICE



A- Auto
B- Bike
T- Transit
W- Walk
NA- Non-Auto
NM- Non-Motorized

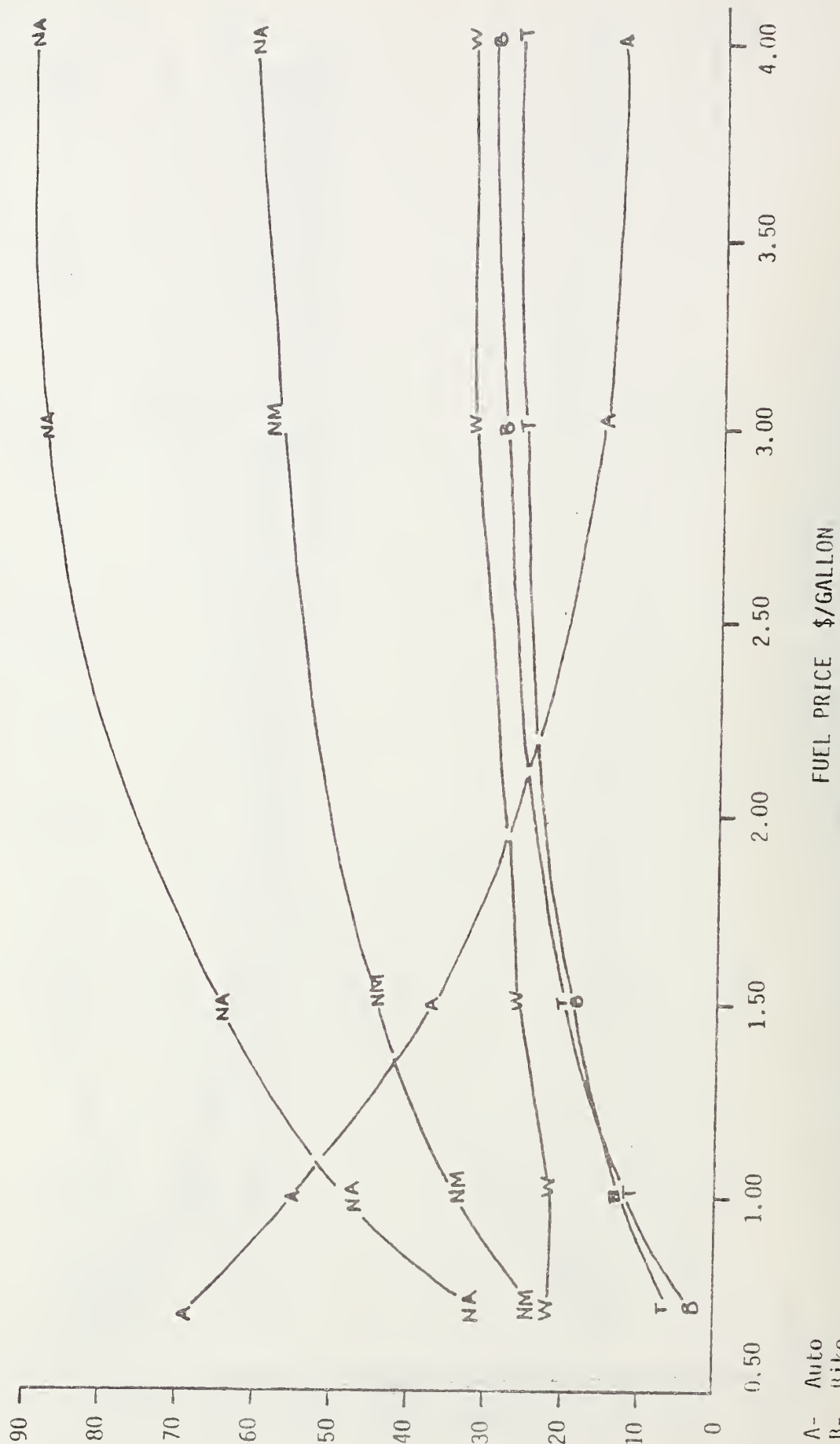
Total (5 Cities)
MODE CHOICE vs. FUEL PRICE



Shopping/Personal Business

FIGURE B-12

Total (5 Cities)
MODE CHOICE vs. FUEL PRICE



A- Auto
B- Bike
T- Transit
W- Walk
NA- Non-Auto
NM- Non-Motorized

FIGURE B-13

AUSTIN

IMPROVED PEDESTRIAN FACILITIES
PLUS INCREASED FUEL PRICES

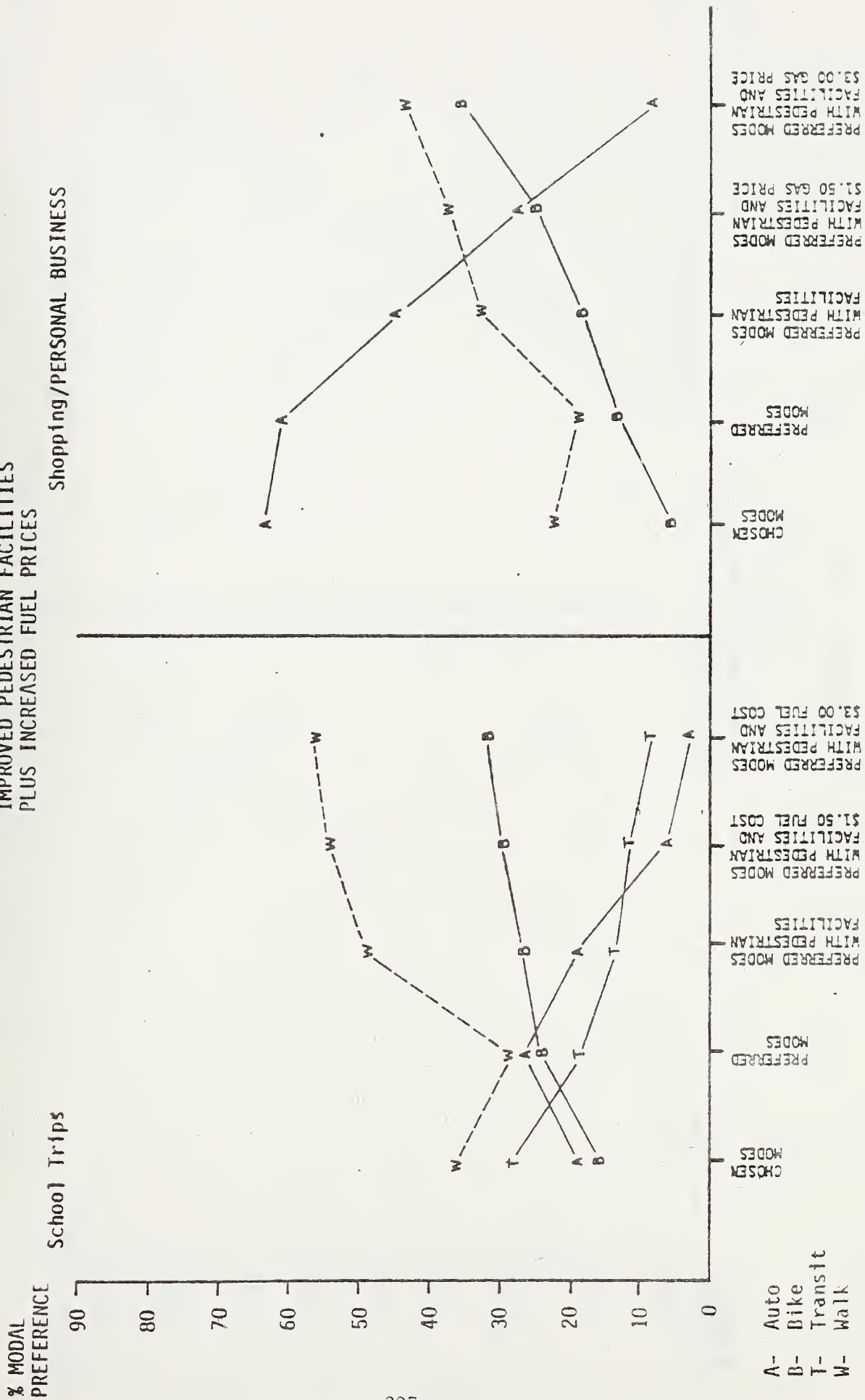


FIGURE B-14

COLUMBUS

IMPROVED PEDESTRIAN FACILITIES
PLUS INCREASED FUEL PRICES

Shopping/Personal Business

% MODAL
PREFERENCE
Work Trips

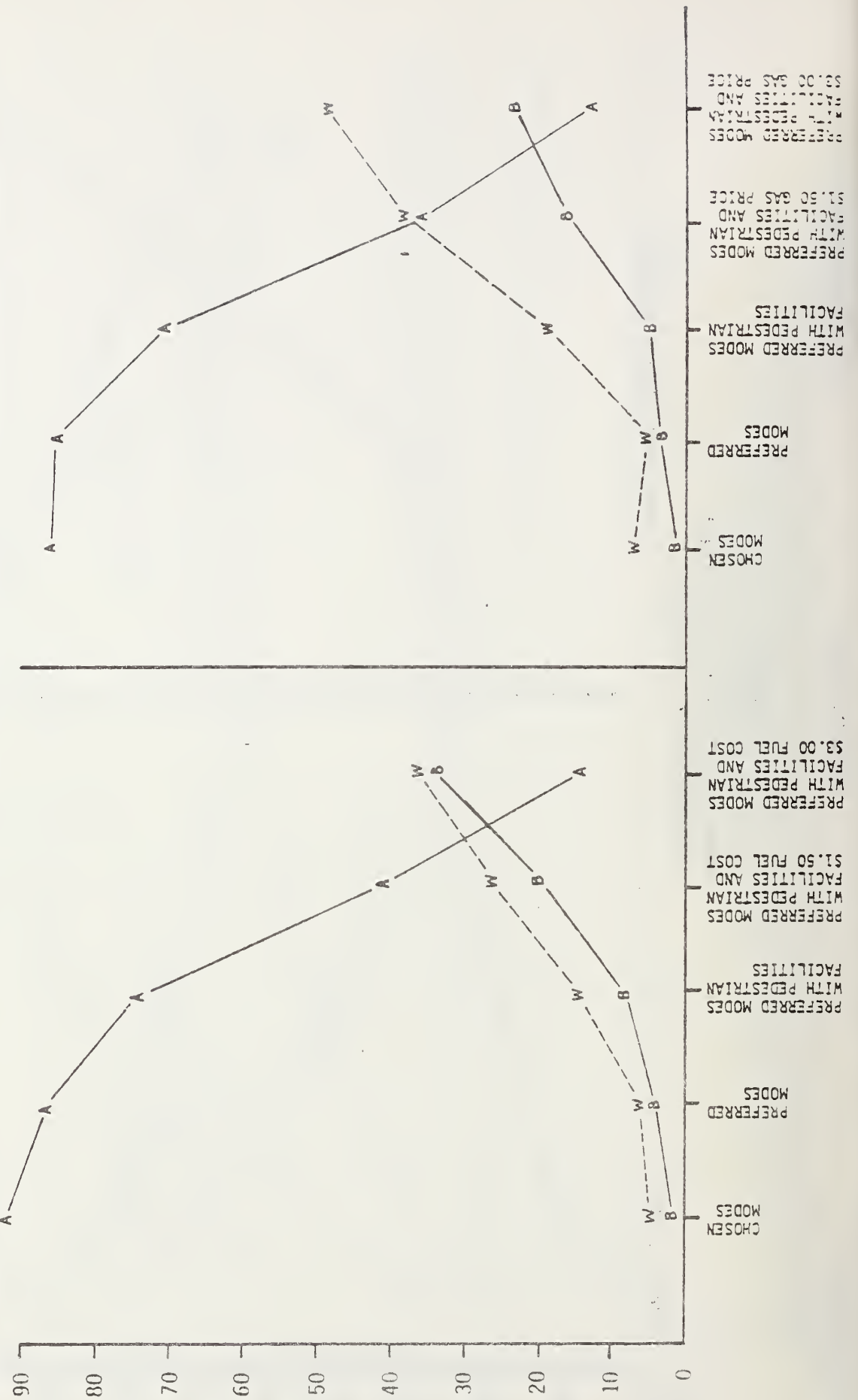


FIGURE B-15

DENVER

IMPROVED PEDESTRIAN FACILITIES
PLUS INCREASED FUEL PRICES

Shopping/Personal Business

% MODAL
PREFERENCE
Work Trips

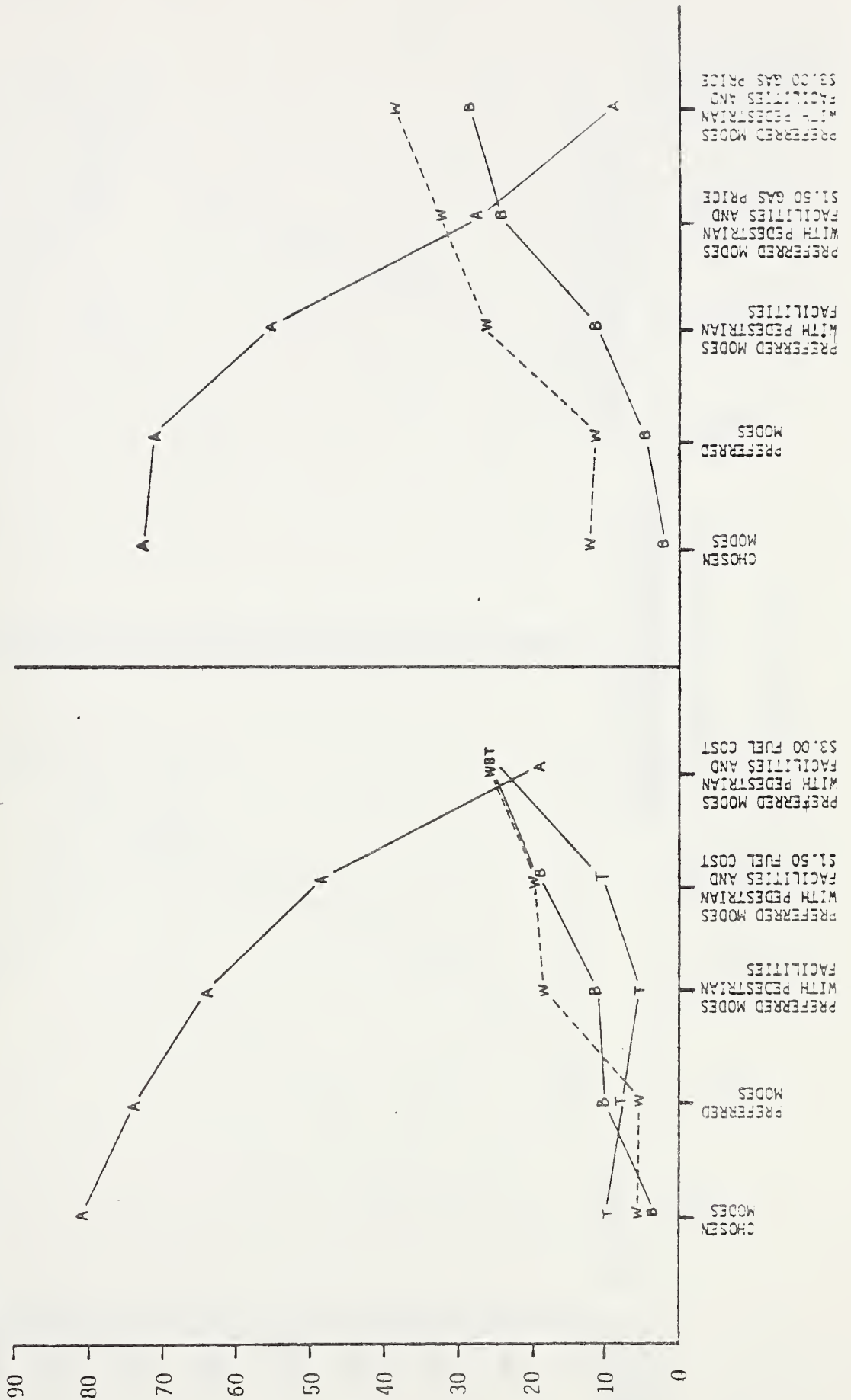


FIGURE B-16

HUNTINGTON BEACH

IMPROVED PEDESTRIAN FACILITIES
PLUS INCREASED FUEL PRICES

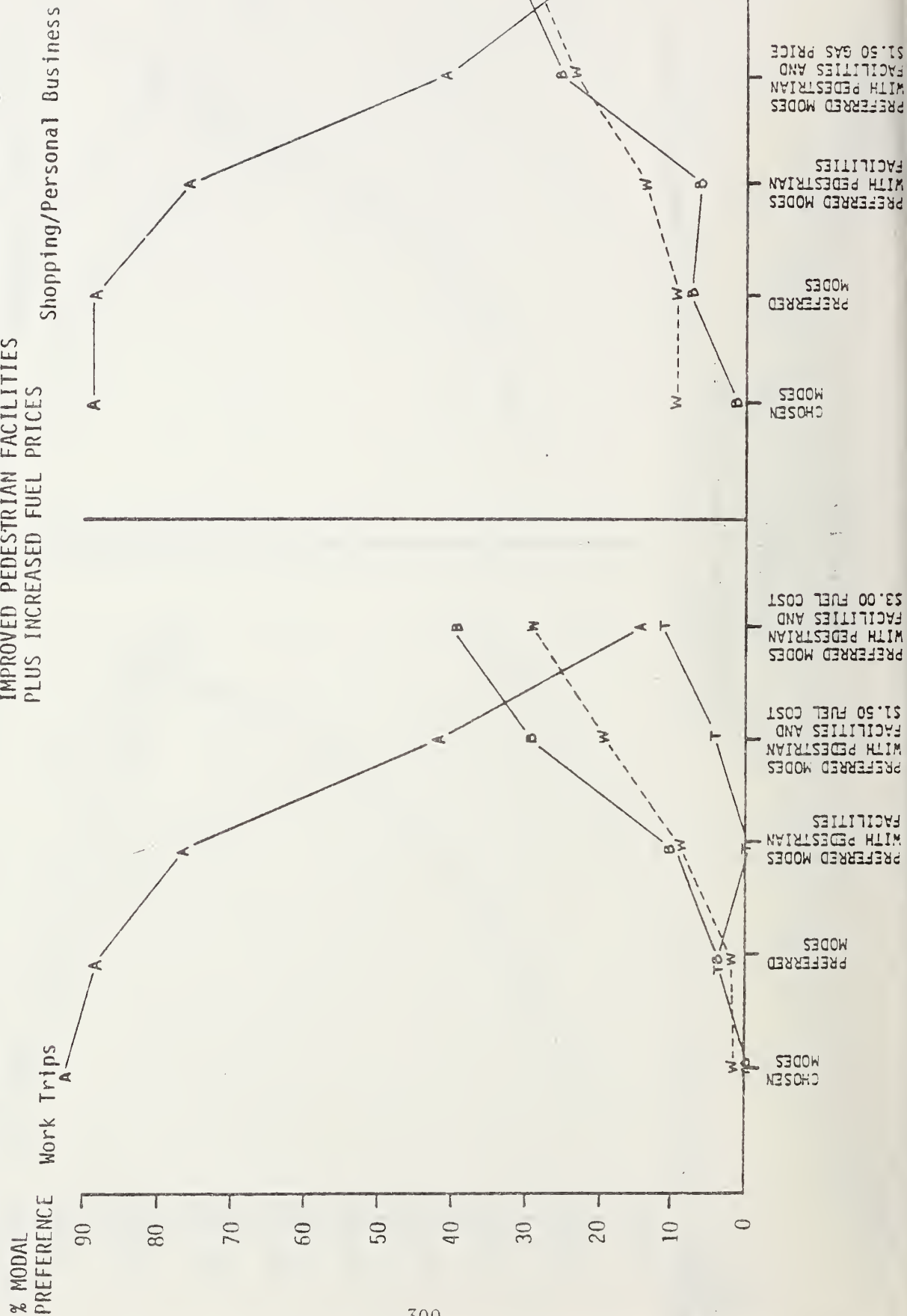


FIGURE B-17

PHILADELPHIA

IMPROVED PEDESTRIAN FACILITIES
PLUS INCREASED FUEL PRICES

% MODAL
PREFERENCE Work Trips

Shopping/Personal Business

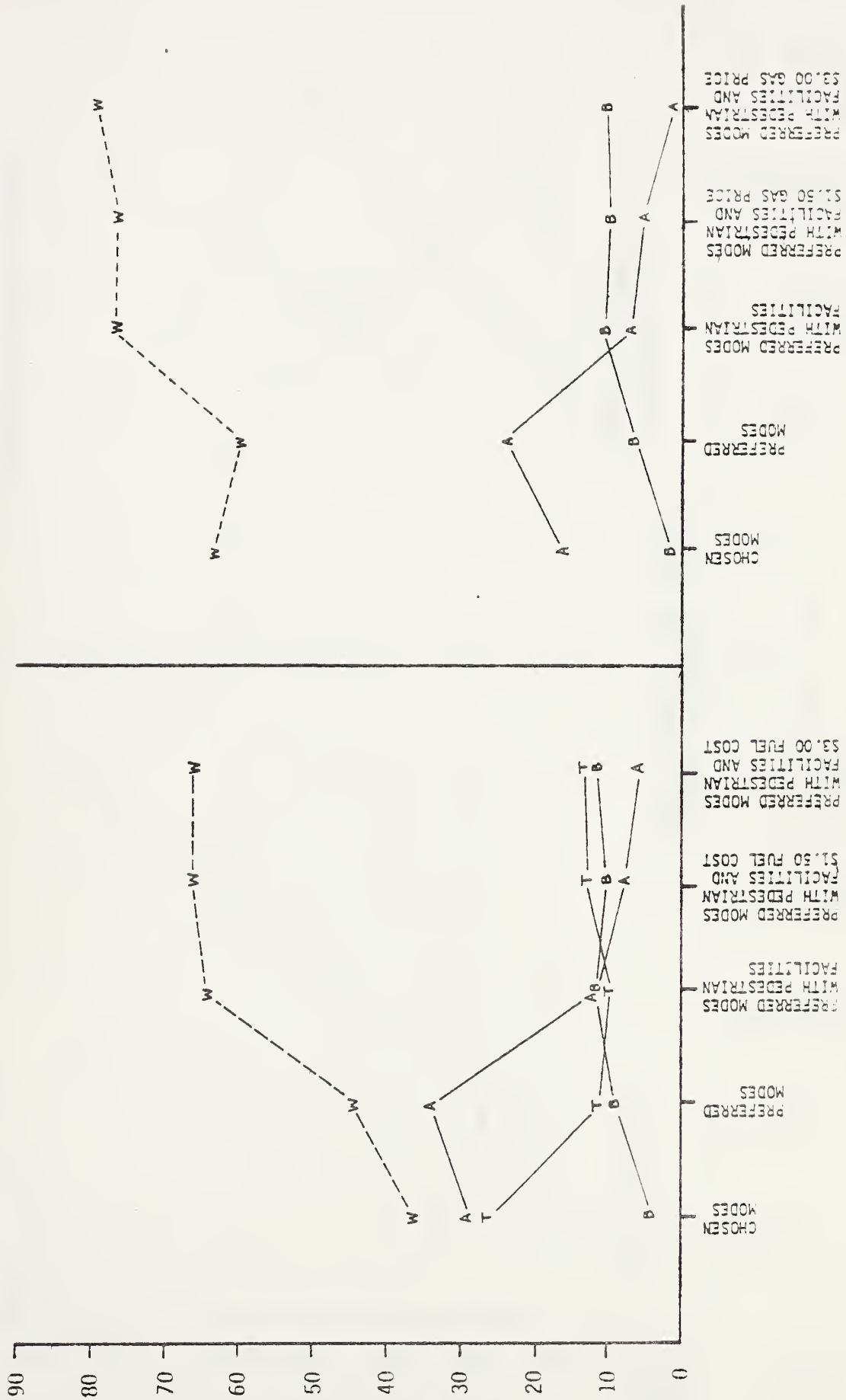


FIGURE B-18

TOTAL

% MODAL
PREFERENCE

Work Trips
Total (4 Cities)

IMPROVED PEDESTRIAN FACILITIES
PLUS INCREASED FUEL PRICES

Shopping/Personal Business
Total (5 Cities)

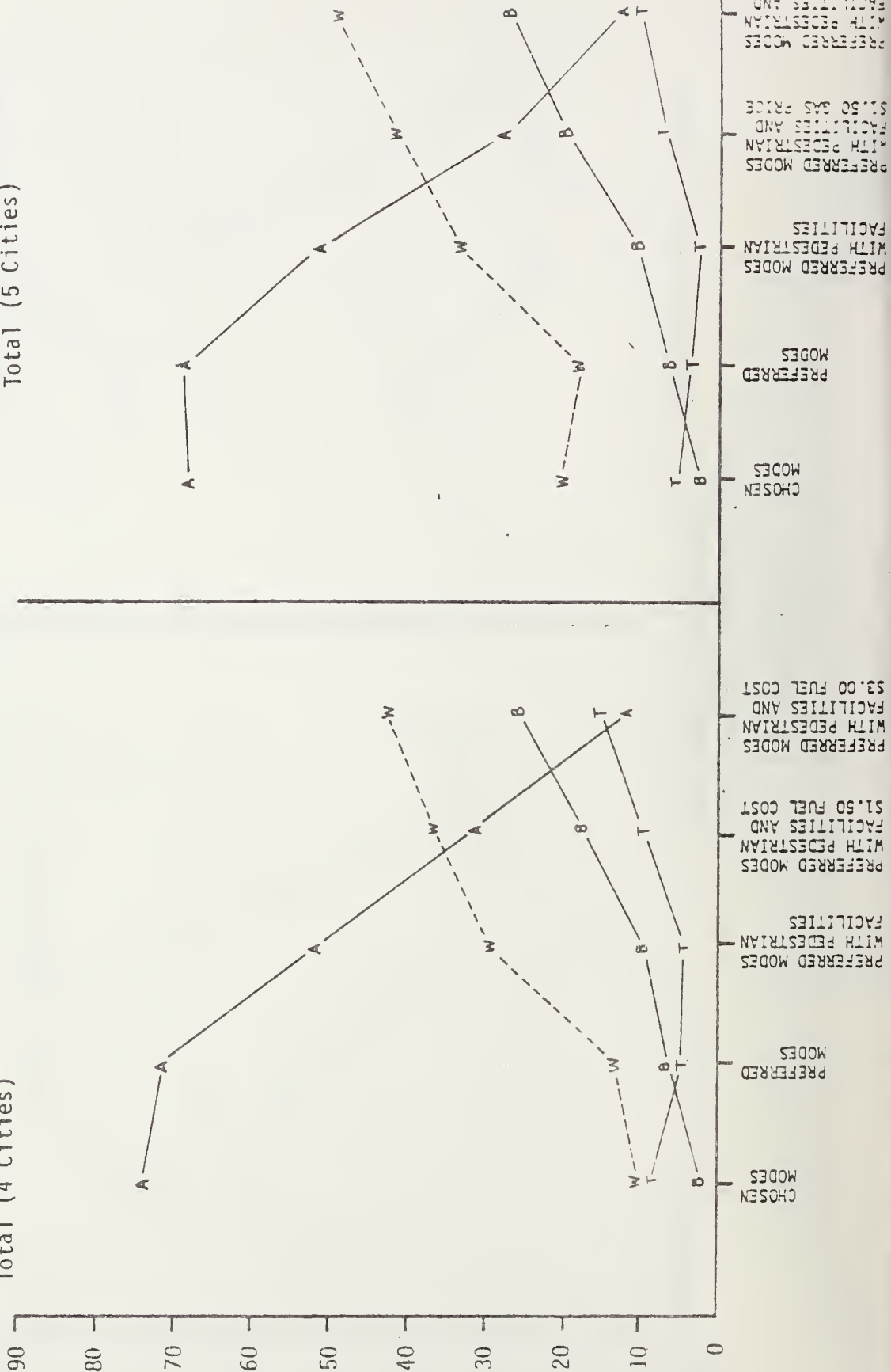


FIGURE R-19

AUSTIN

IMPROVED BICYCLE FACILITIES
PLUS INCREASED FUEL PRICES

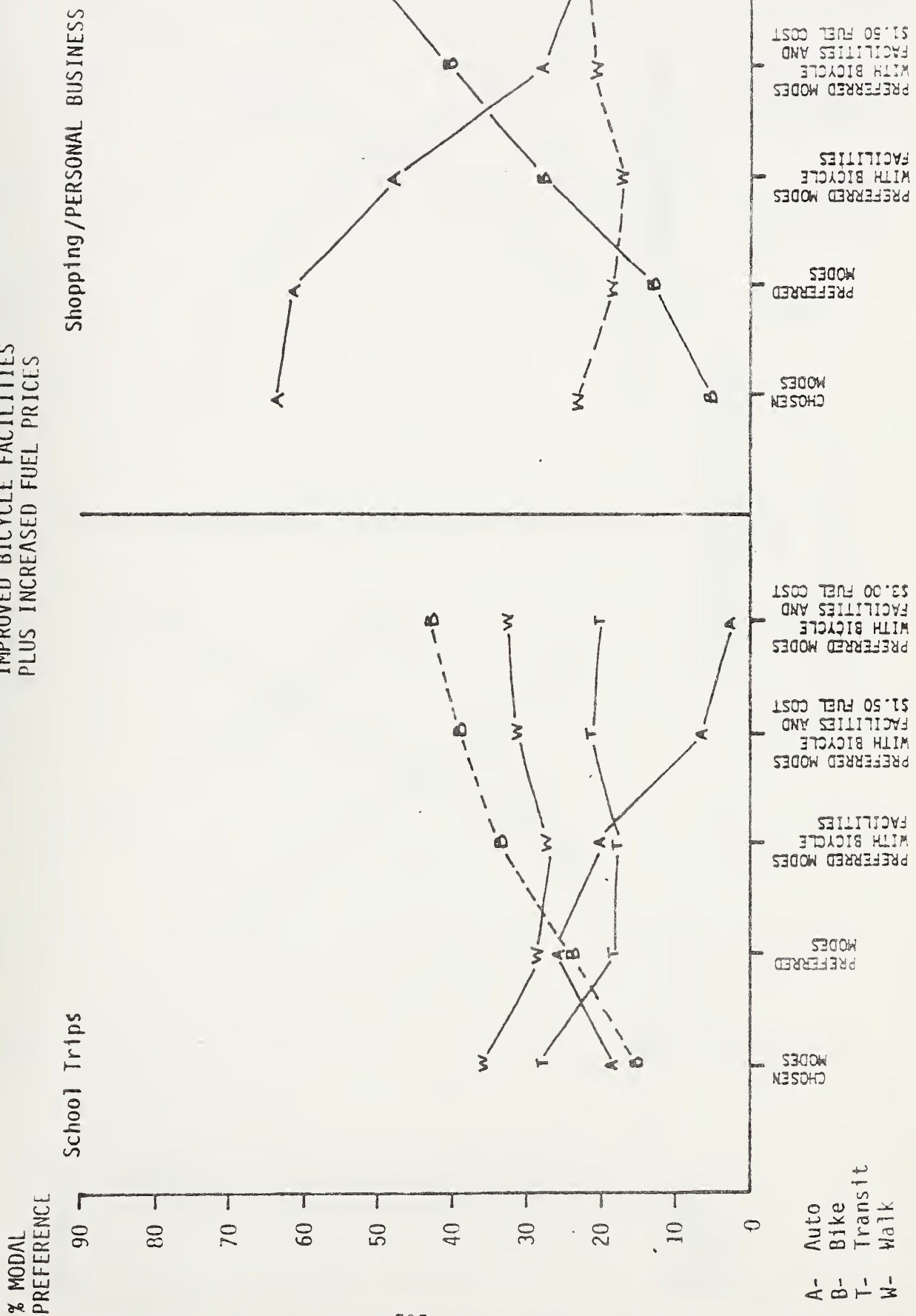


FIGURE B-20

COLUMBIUS

IMPROVED BICYCLE FACILITIES
PLUS INCREASED FUEL PRICES

% MODAL
PREFERENCE

Work Trips

Shopping / PERSONAL BUSINESS

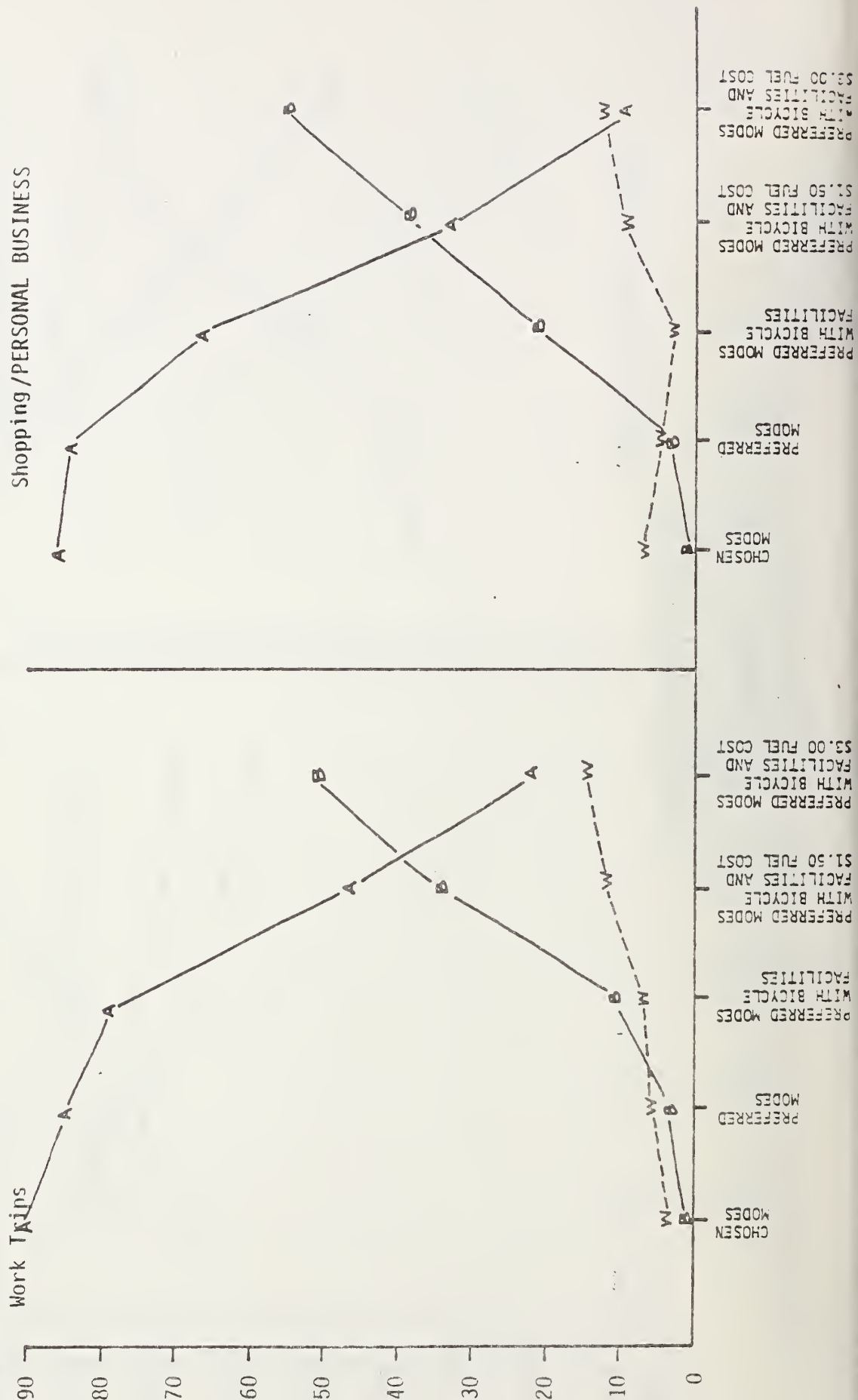


FIGURE B-21

DENVER

IMPROVED BICYCLE FACILITIES
PLUS INCREASED FUEL PRICES

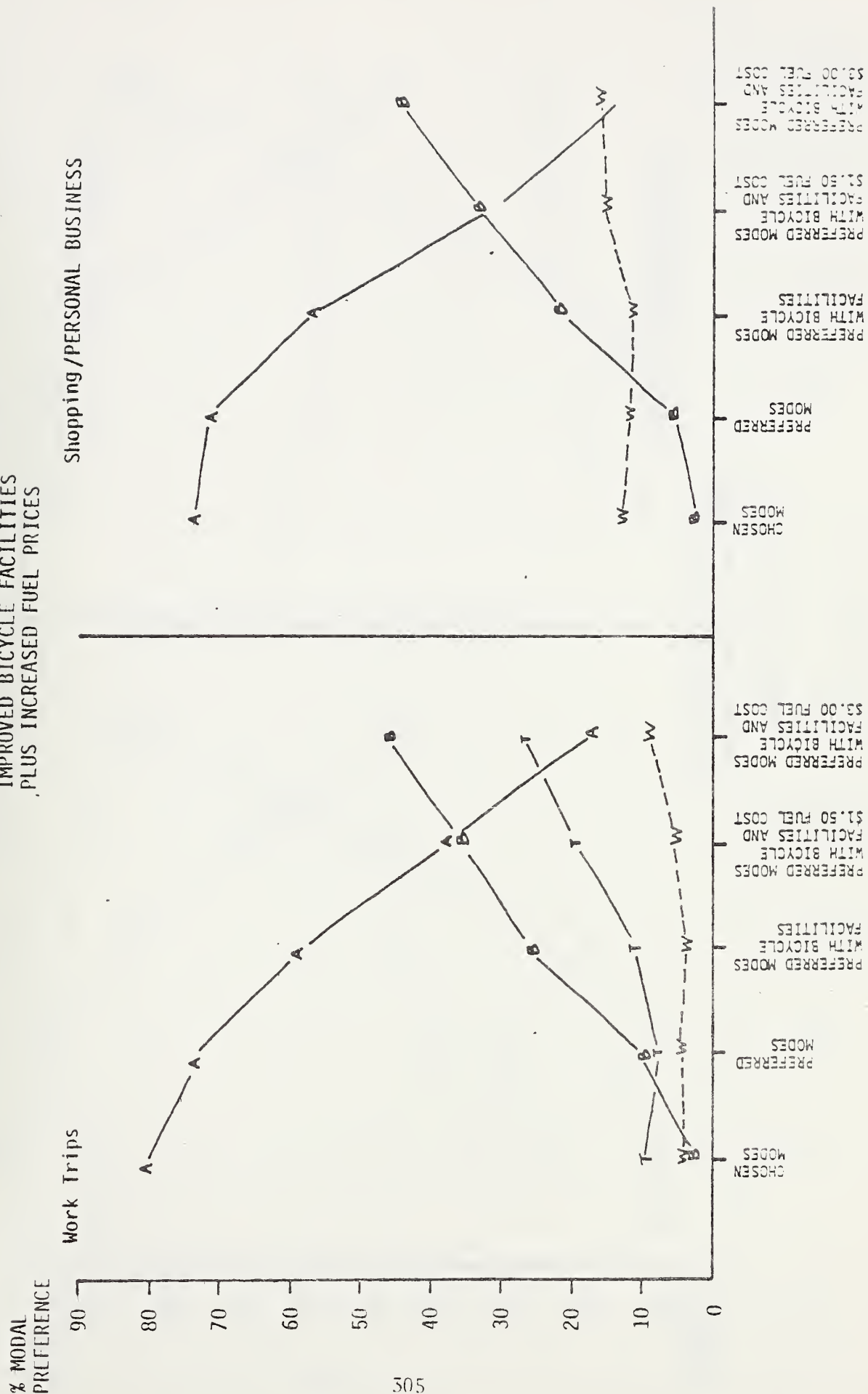


FIGURE B-22

HUNTINGTON BEACH

IMPROVED BICYCLE FACILITIES
PLUS INCREASED FUEL PRICES

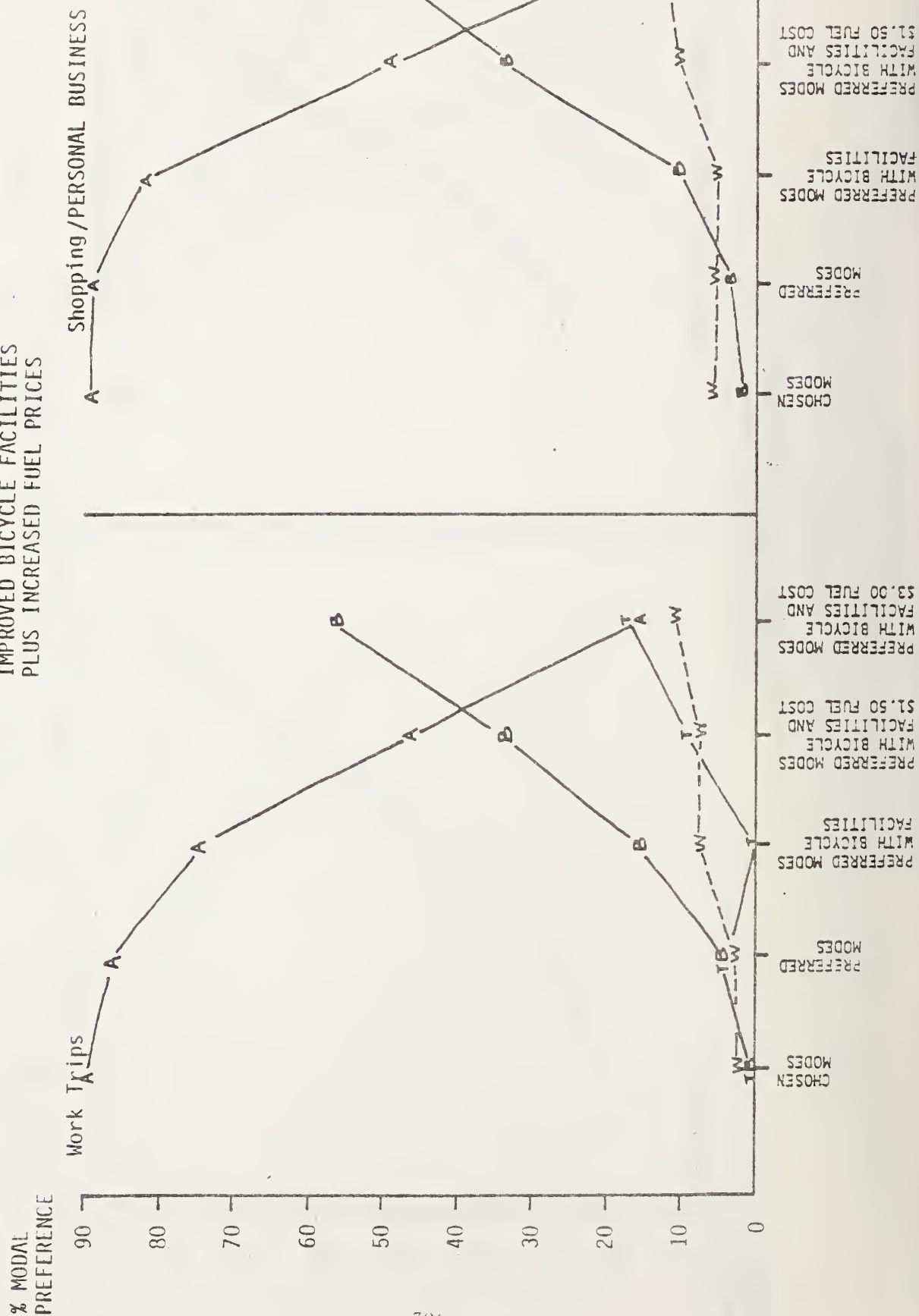


FIGURE B-23

PHILADELPHIA

IMPROVED BICYCLE FACILITIES
PLUS INCREASED FUEL PRICES

Shopping / PERSONAL BUSINESS

% MODAL
PREFERENCE

Work Trips

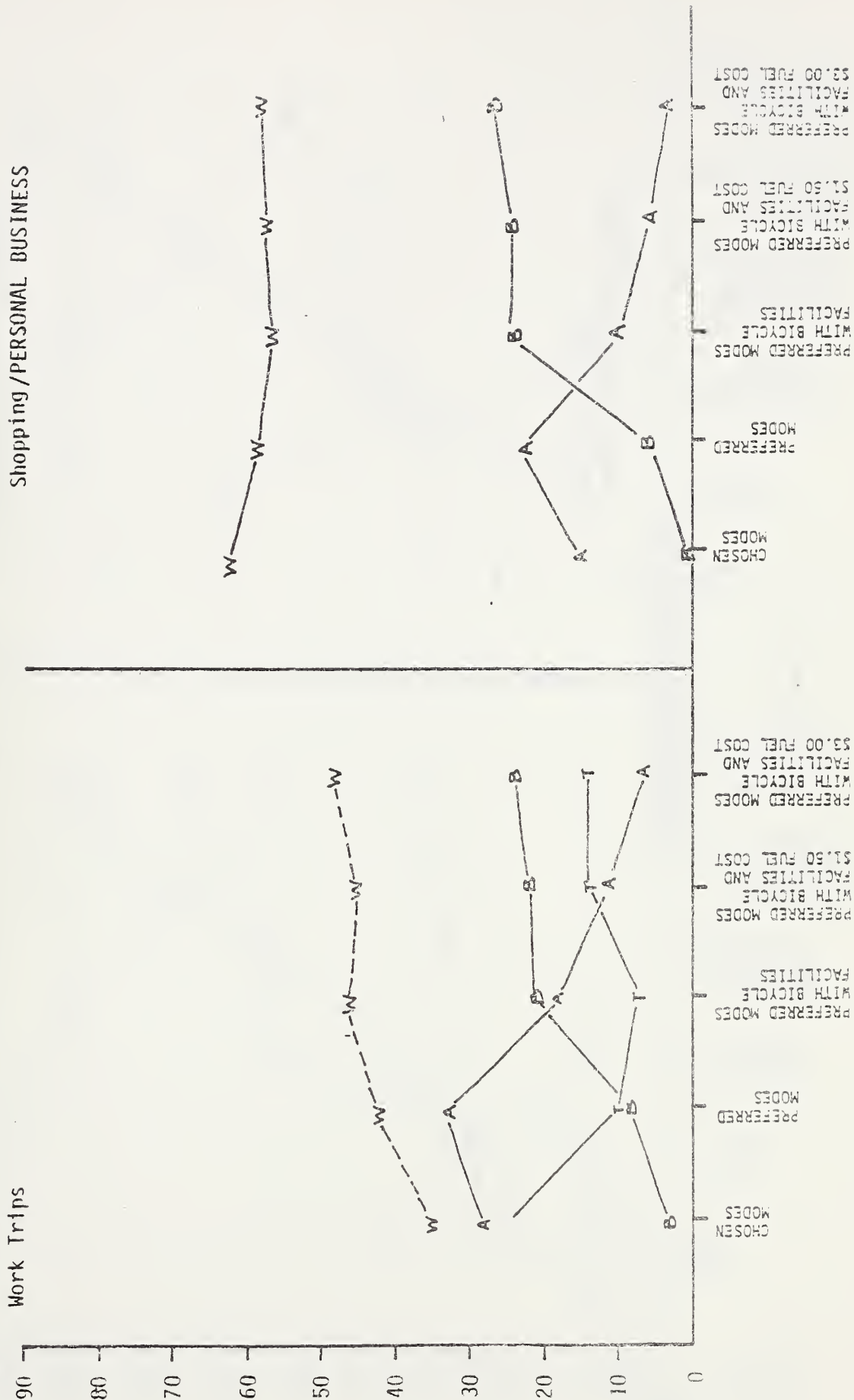


FIGURE B-24

IMPROVED BICYCLE FACILITIES
PLUS INCREASED FUEL PRICES

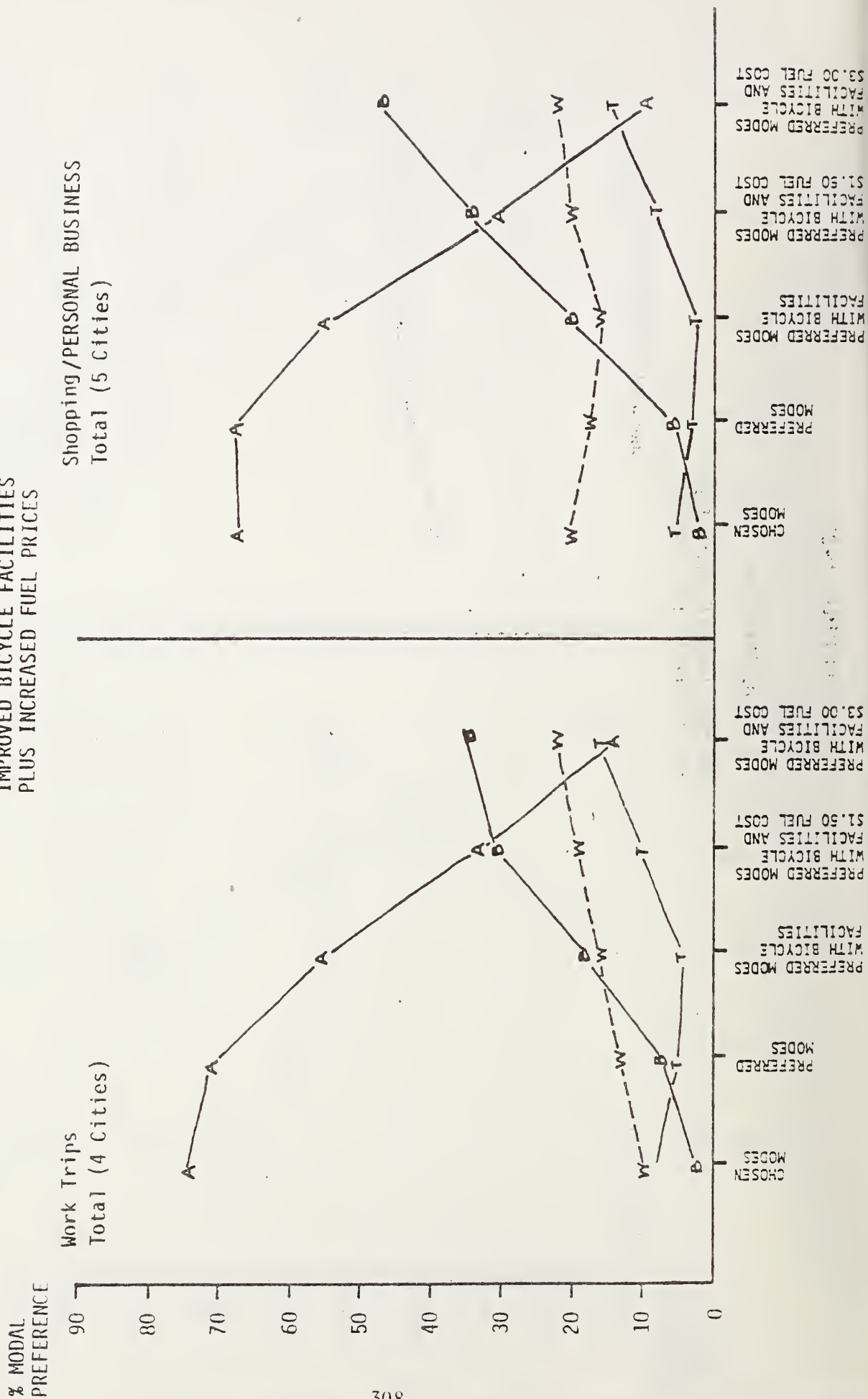


FIGURE B-25

AUSTIN

COMPACT LAND USE PLUS FUEL PRICE INCREASES
AND RESTRICTED SPEED AND PARKING

Shopping/PERSONAL BUSINESS

% MODAL
PREFERENCE

School Trips

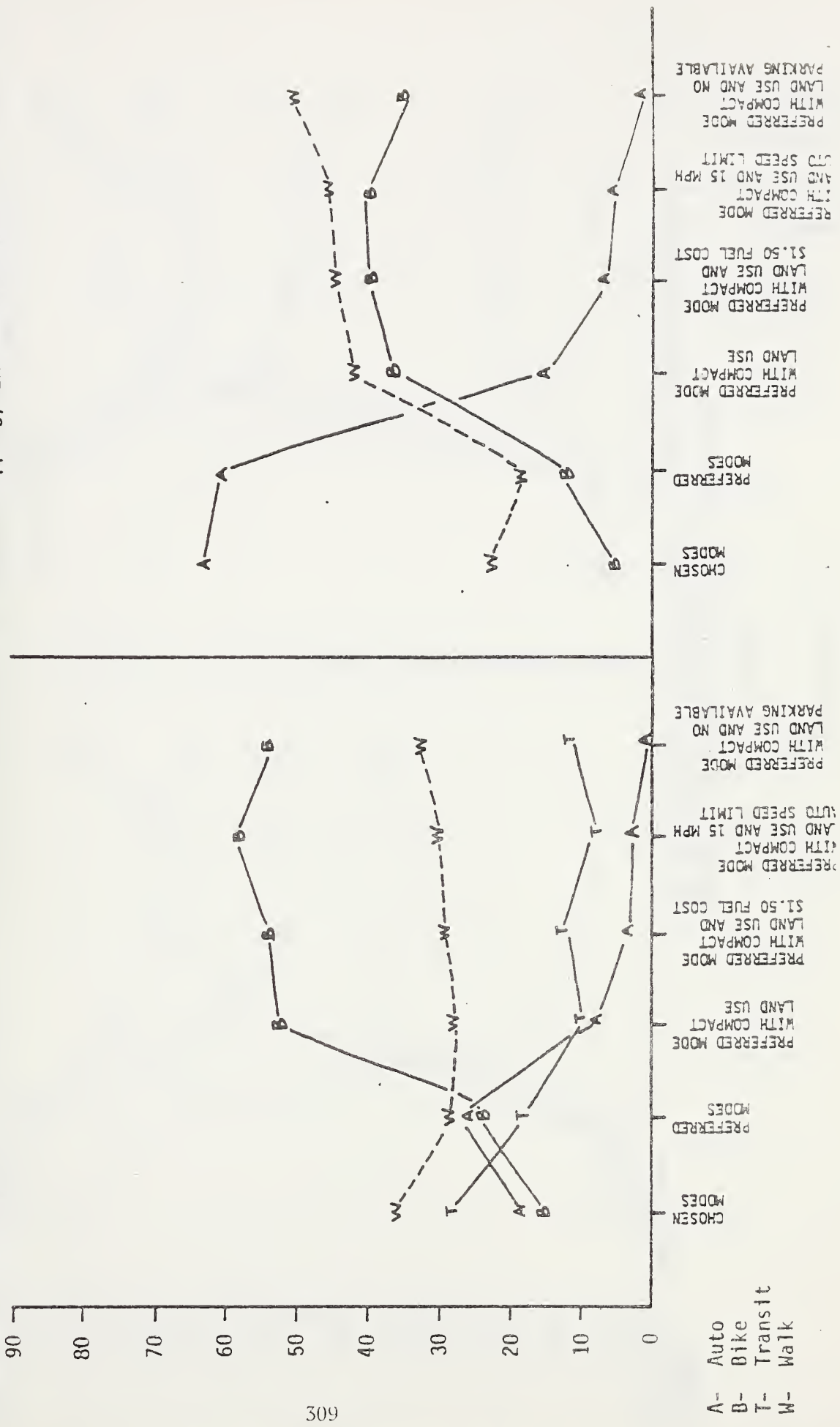


FIGURE B-26

COLUMBUS

COMPACT LAND USE PLUS FUEL PRICE INCREASES
AND RESTRICTED SPEED AND PARKING

Shopping/Personal Business

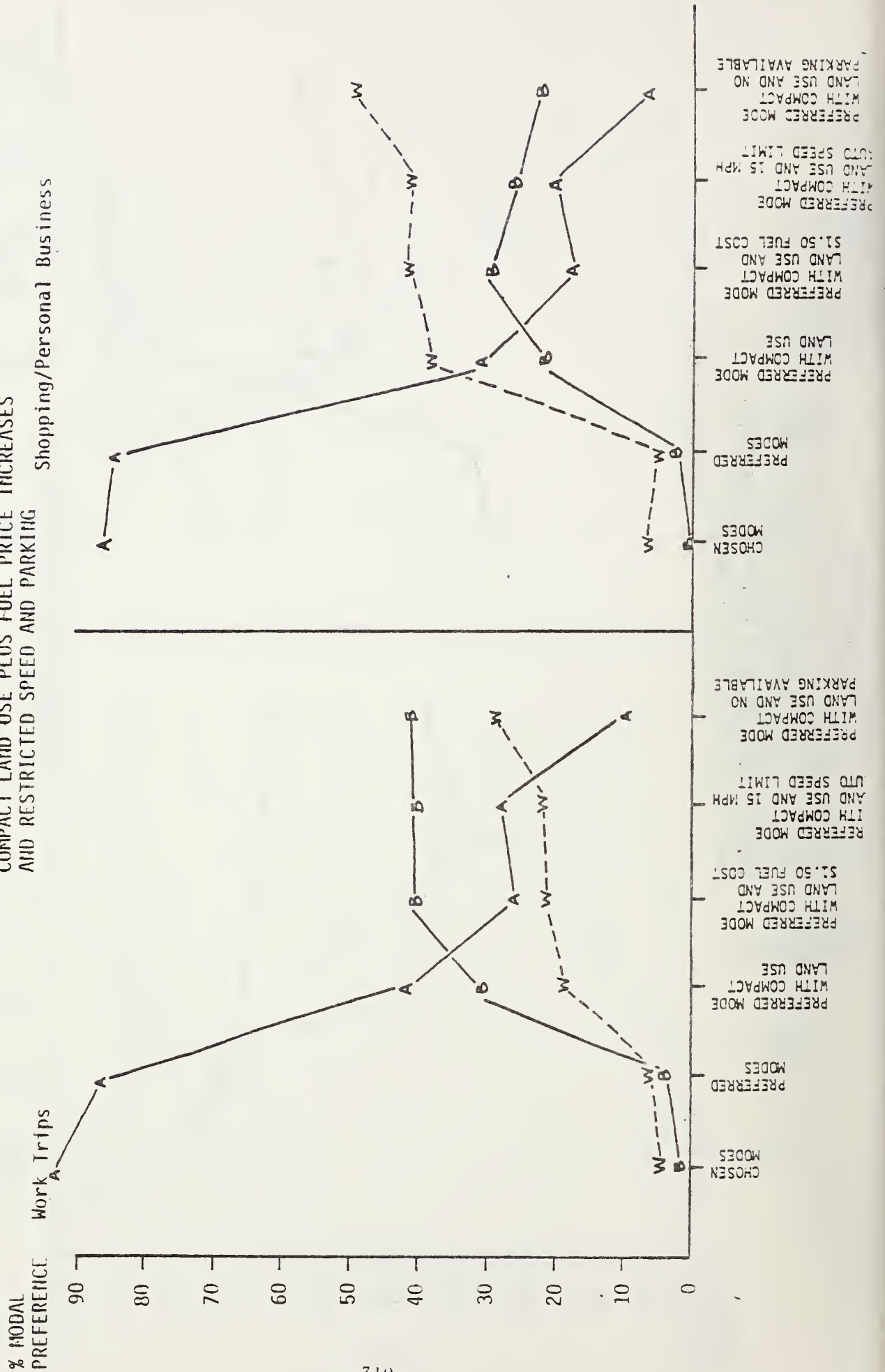


FIGURE B-27

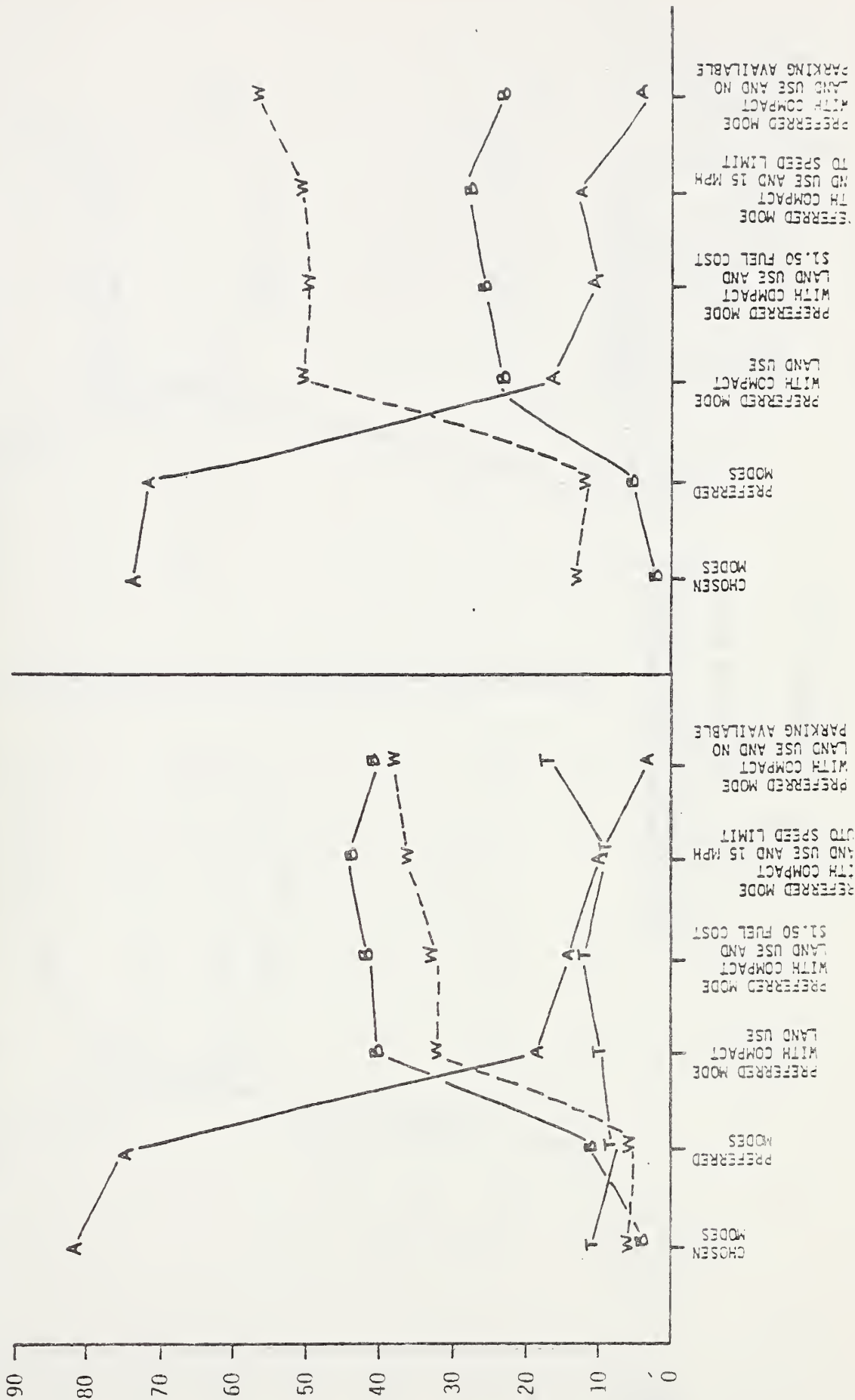
DENVER

COMPACT LAND USE PLUS FUEL PRICE INCREASES
AND RESTRICTED SPEED AND PARKING

Shopping/Personal Business

% MODAL
PREFERENCE

Work Trips



% MODAL PREFERENCE	Work Trips	HUNTINGTON BEACH	COMPACT LAND USE PLUS FUEL PRICE AND RESTRICTED SPEED AND PARKING	INCREASES	Shopping/Personal Business
100	100	100	100	100	100
90	90	90	90	90	90
80	80	80	80	80	80
70	70	70	70	70	70
60	60	60	60	60	60
50	50	50	50	50	50
40	40	40	40	40	40
30	30	30	30	30	30
20	20	20	20	20	20
10	10	10	10	10	10
0	0	0	0	0	0



FIGURE B-29

PHILADELPHIA

COMPACT LAND USE PLUS FUEL PRICE INCREASES
AND RESTRICTED SPEED AND PARKING

% MODAL
PREFERENCE

Work Trips

Shopping/Personal Business

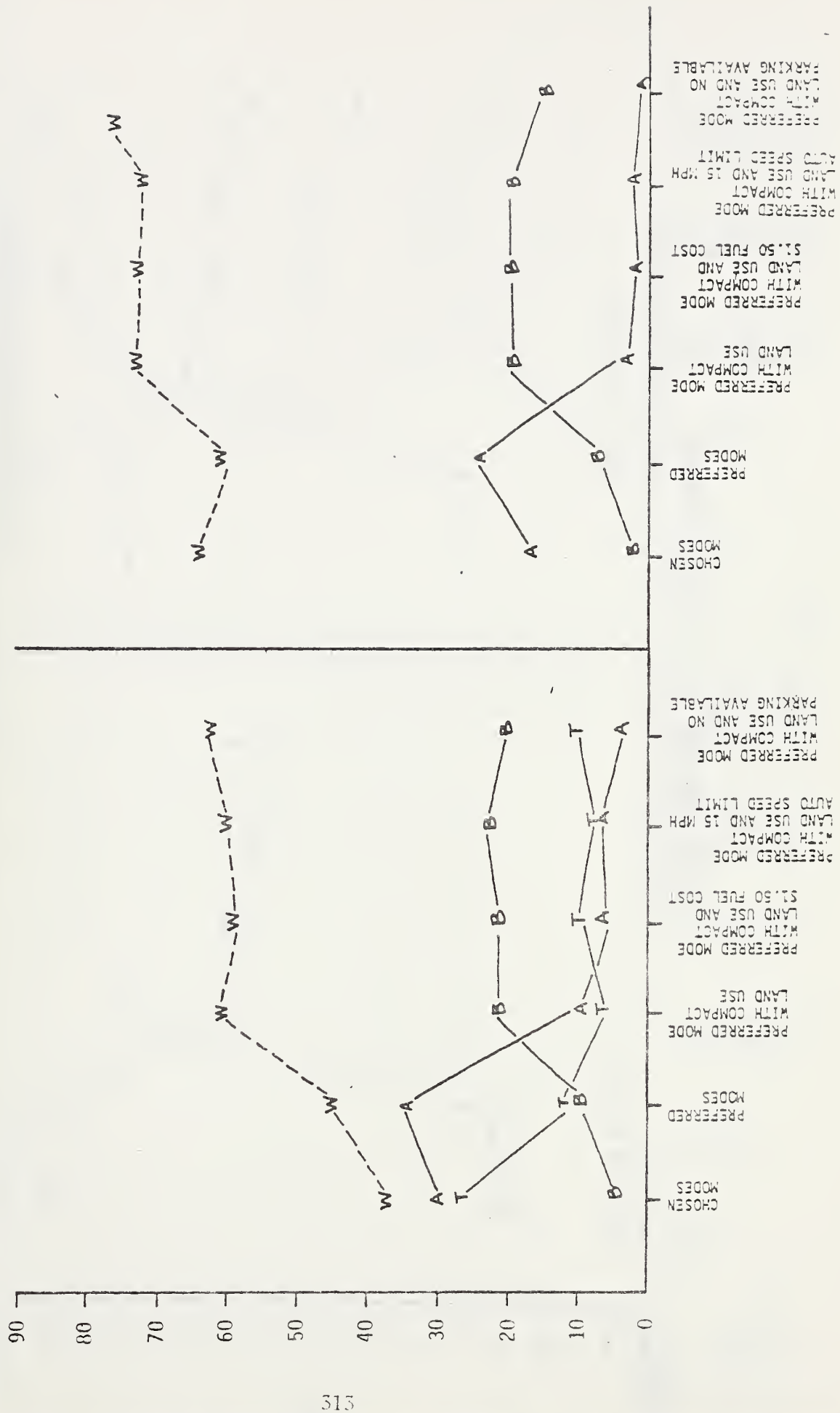


FIGURE B-30

COMPACT LAND USE PLUS FUEL PRICE INCREASES
AND RESTRICTED SPEED AND PARKING

Shopping/Personal Business
Total (5 Cities)

% MODAL
PREFERENCE

Work Trips
Total (4 Cities)

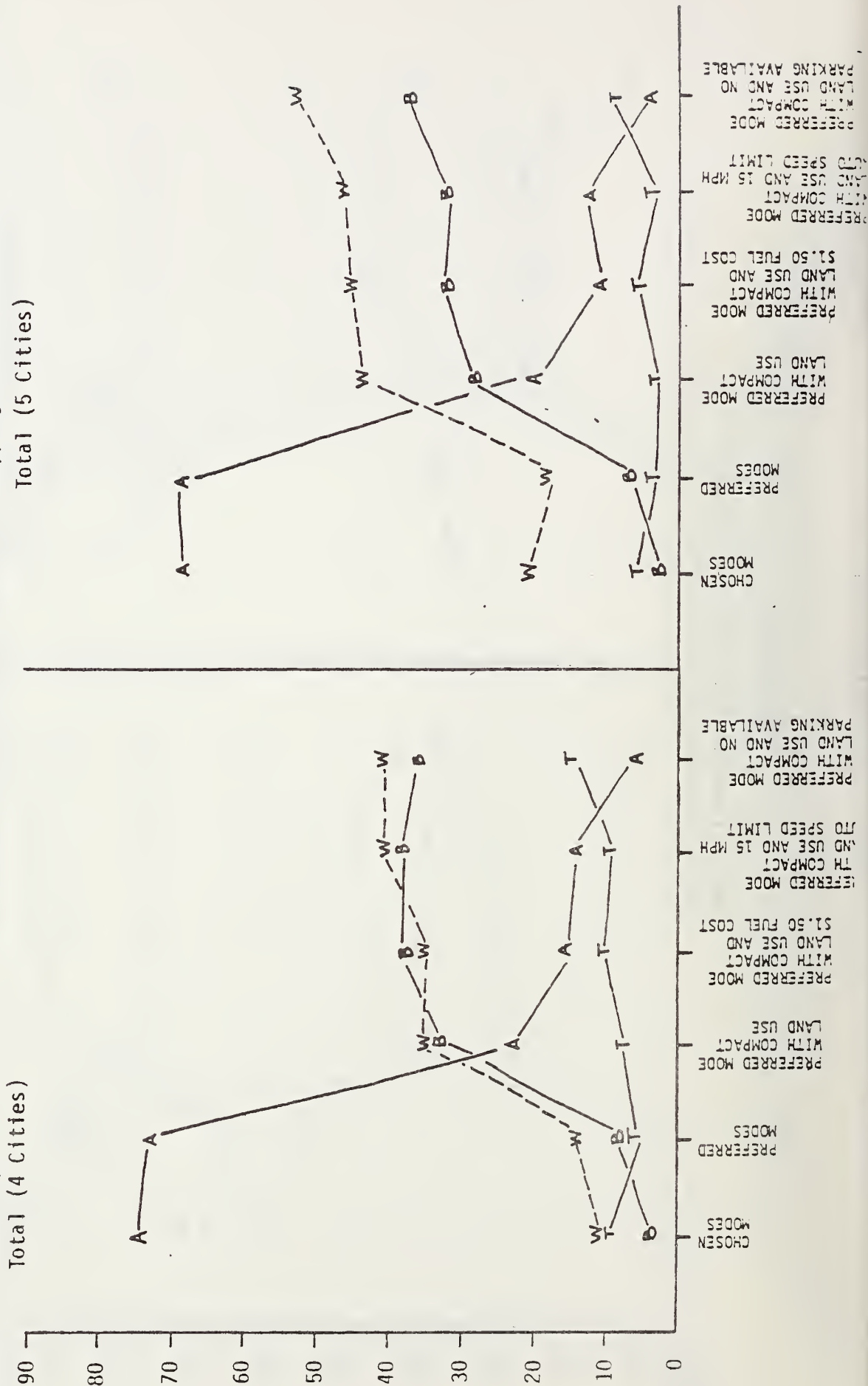


FIGURE B-31

-AUSTIN

CONGESTION FEES PLUS INCREASED FUEL PRICE

% MODAL PREFERENCE

School Trips

Shopping/PERSONAL BUSINESS

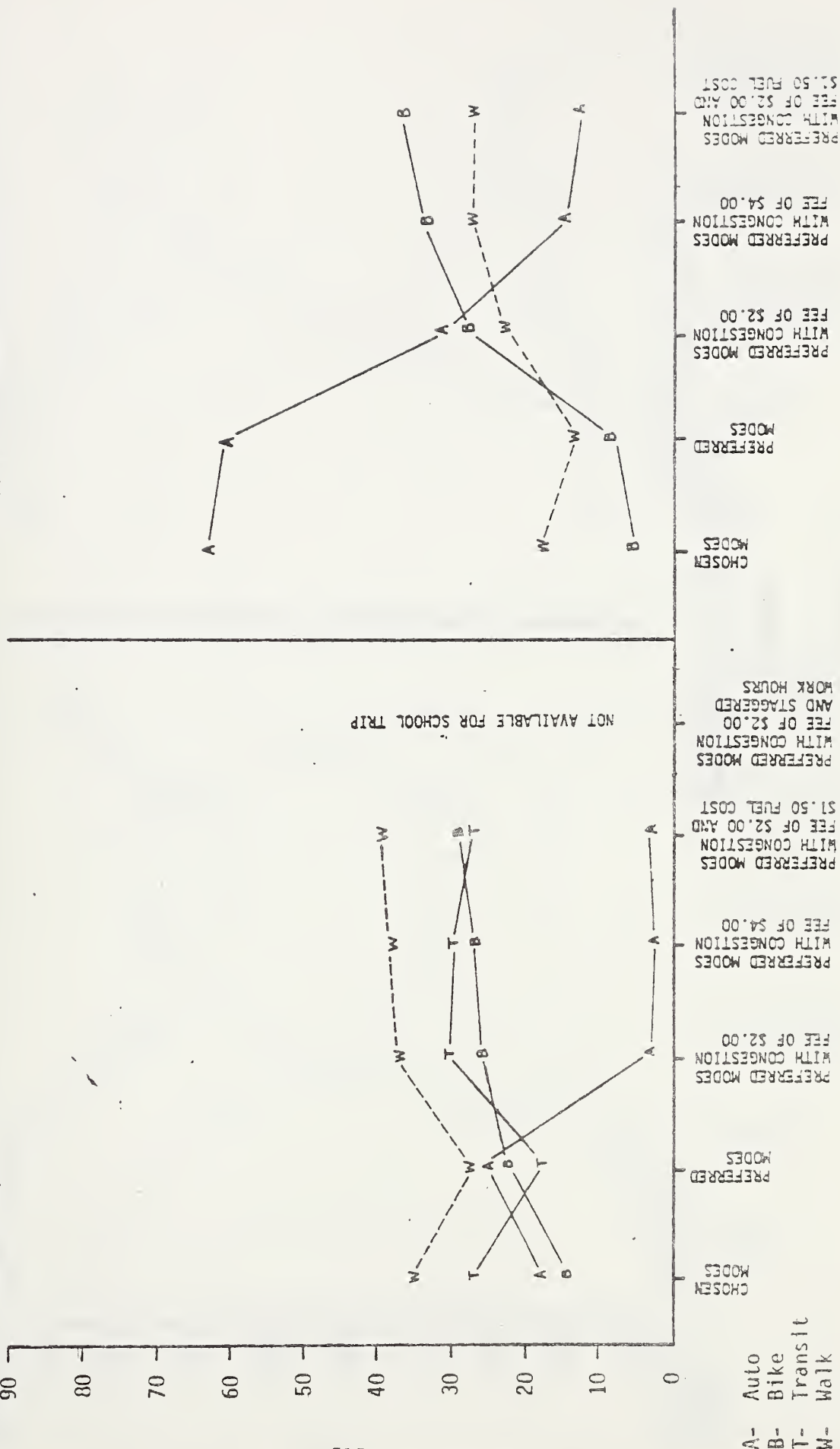


FIGURE B-32

COLUMBUS

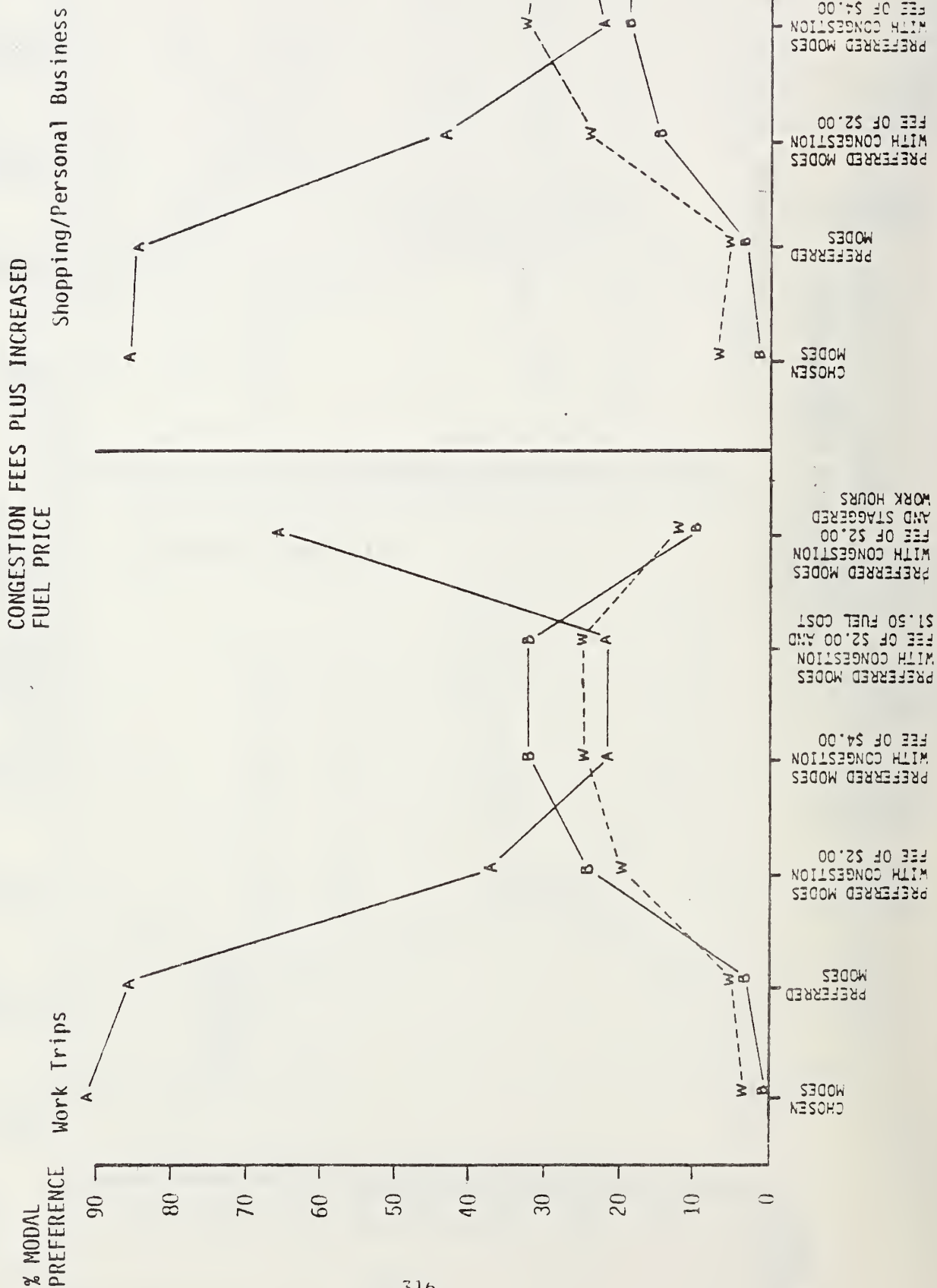


FIGURE B-33

DENVER

CONGESTION FEES PLUS INCREASED FUEL PRICE

Shopping/Personal Business

% MODAL PREFERENCE

Work Trips

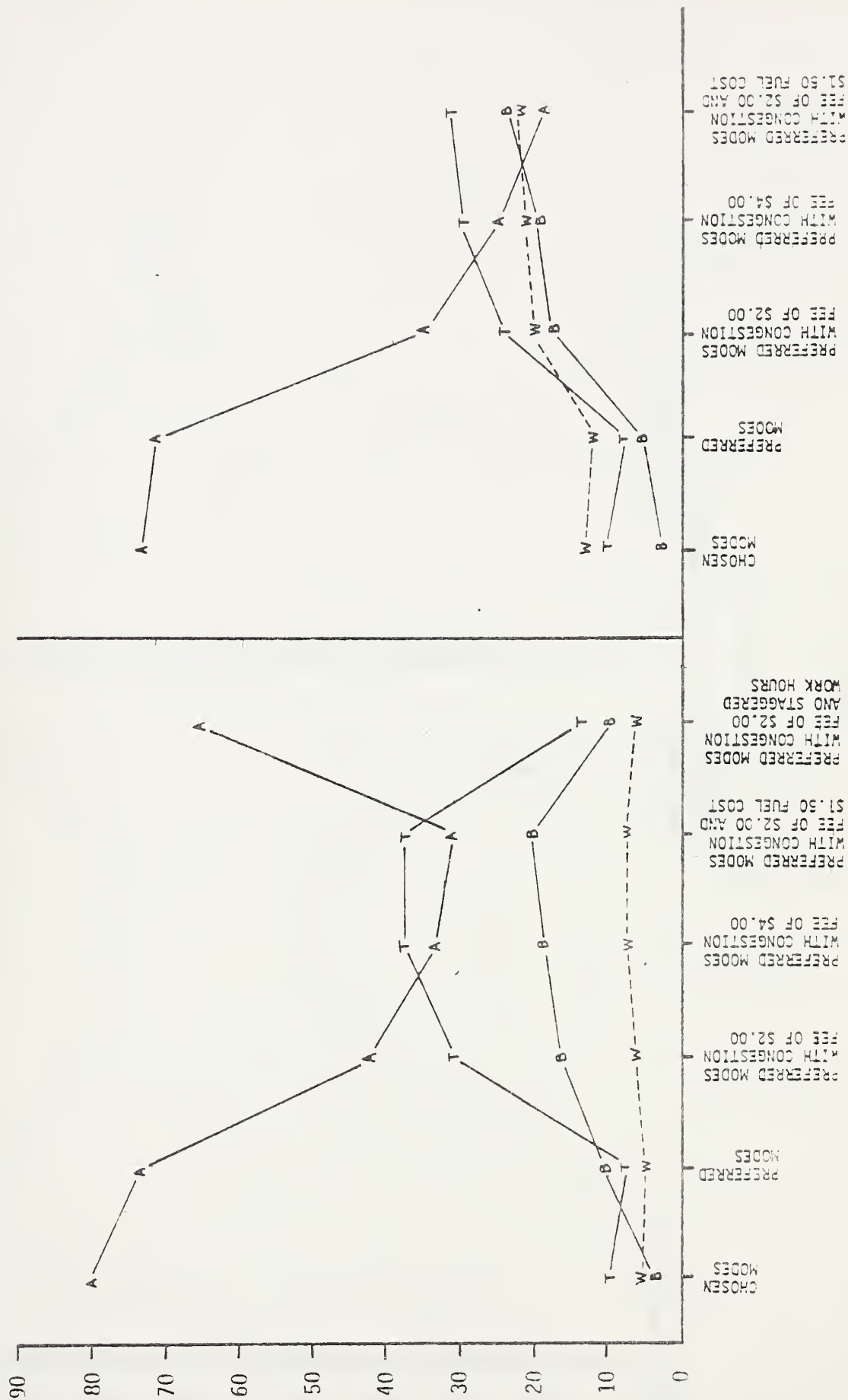


FIGURE B-34

HUNTINGTON BEACH

CONGESTION FEES PLUS INCREASED FUEL PRICE

Shopping/Personal Business

% MODAL PREFERENCE

Work Trips

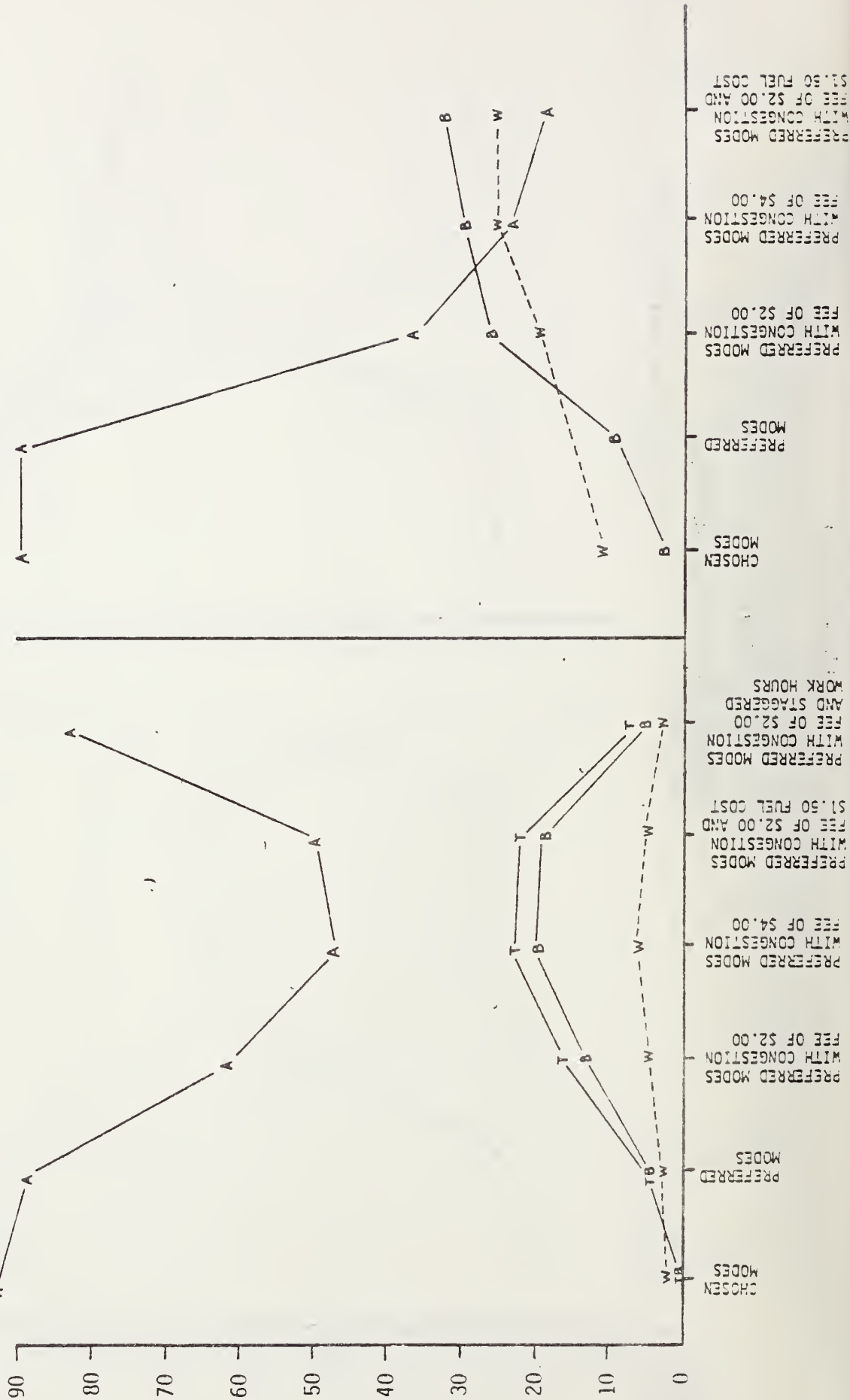


FIGURE B-35

PHILADELPHIA

CONGESTION FEES PLUS INCREASED
FUEL PRICE

Shopping/Personal Business

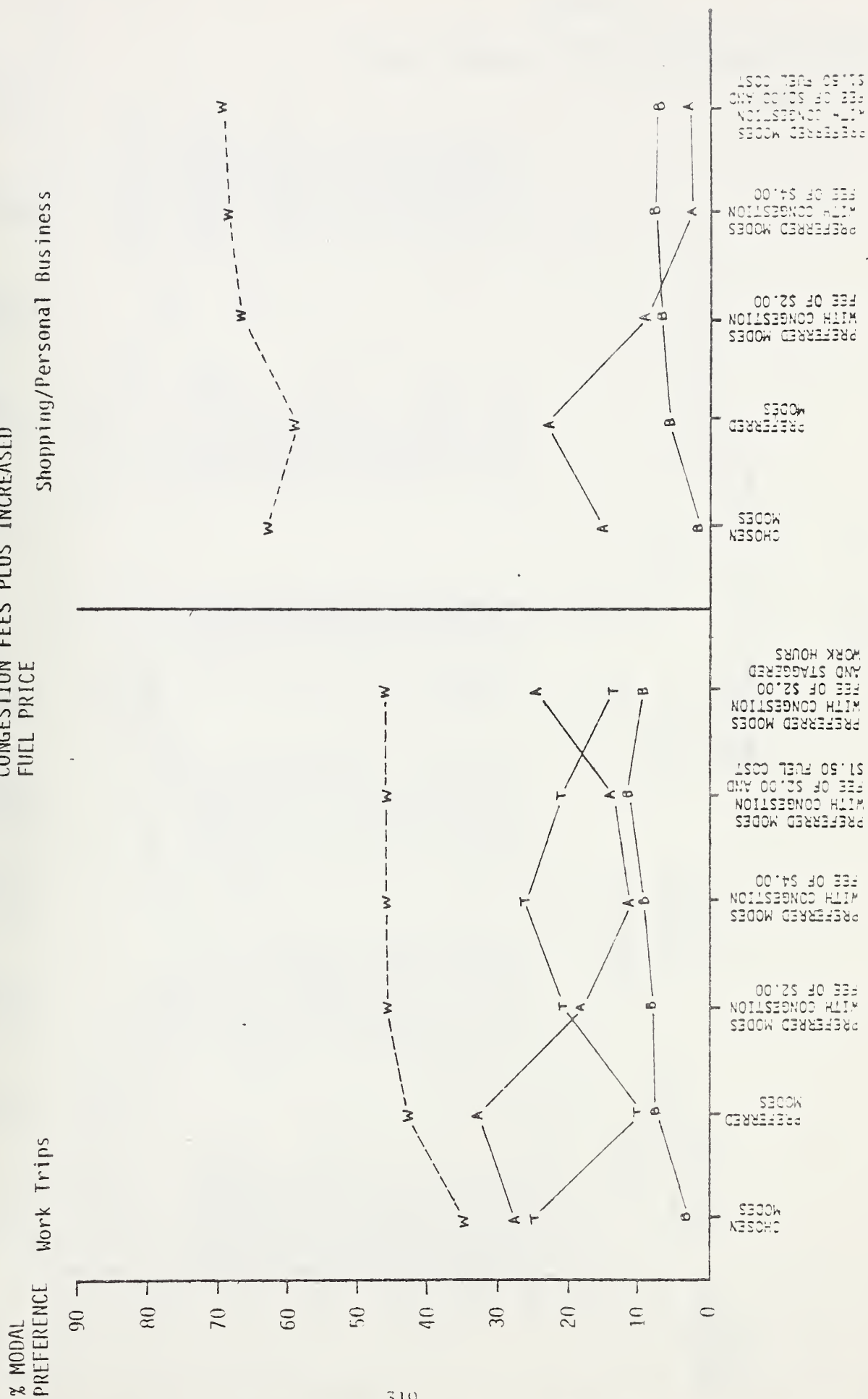


FIGURE B-36

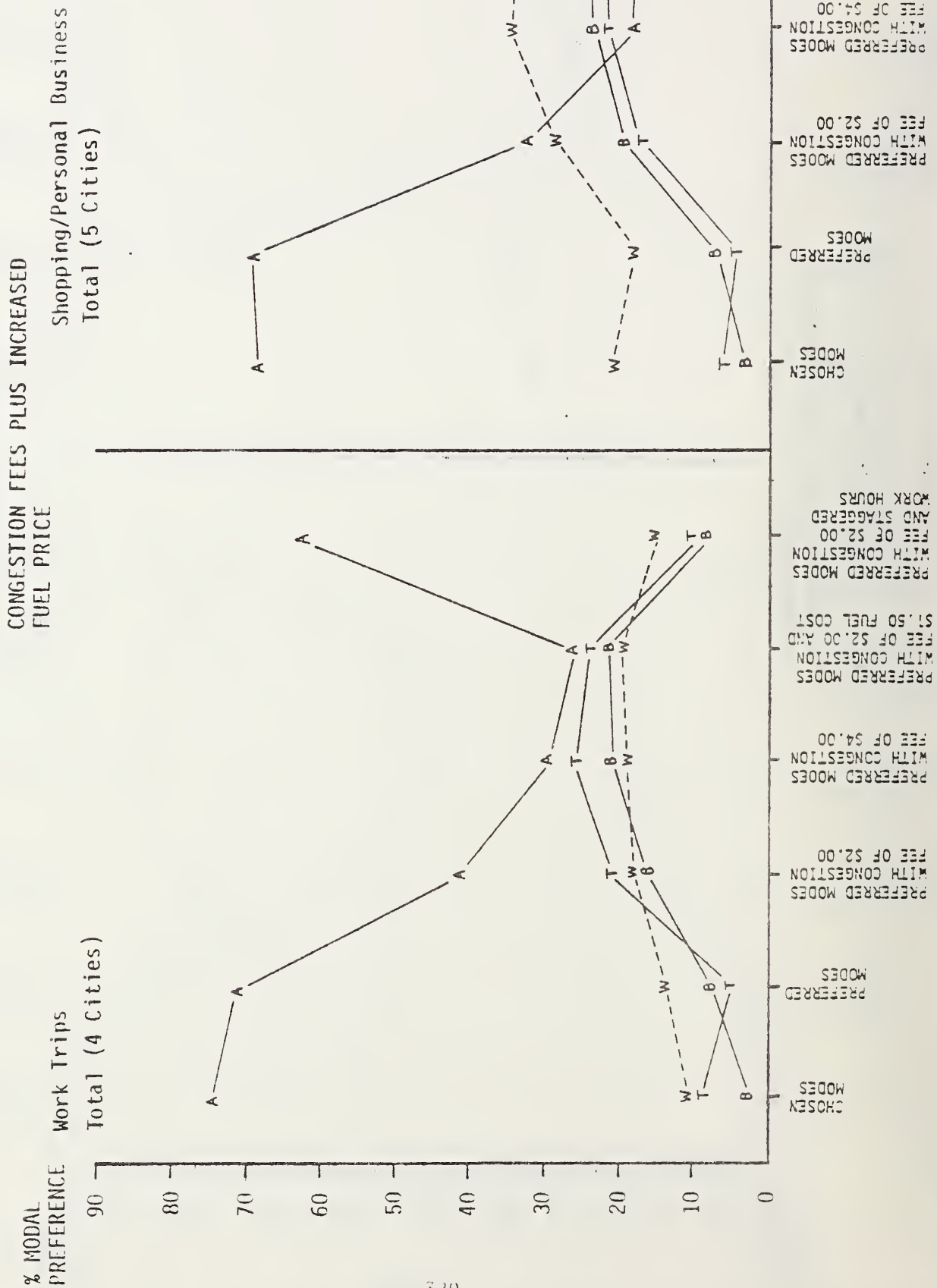


TABLE C-1

Factor Matrix for Combined Modes
(Combined Sites - Work Trips)

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.06415	0.06298	0.62265	GREATOUT	0.45000
CNVERRND	-0.16502	-0.10367	0.15003	CNVERRND	0.53516
SKEDFLEX	-0.06474	-0.16627	0.10721	SKEDFLEX	0.42193
TIRING	0.27522	0.44696	-0.47319	TIRING	0.53304
DANGER	0.70642	0.13493	-0.15012	DANGER	0.67646
LATEWORY	0.03972	0.50312	-0.19905	LATEWORY	0.56402
RAINRELY	0.29352	0.67440	0.05090	RAINRELY	0.61327
PCKAGES	-0.18704	-0.57006	0.04776	PCKAGES	0.45629
BUMPY	0.40660	0.20291	-0.00115	BUMPY	0.32344
SPEED	0.09996	-0.59962	0.21066	SPEED	0.50949
MUGGEN	0.20466	0.43002	-0.03630	MUGGEN	0.31950
INJURY	0.79055	0.14600	-0.10657	INJURY	0.60970
RELAX	-0.13390	-0.15714	0.00147	RELAX	0.70542
INSCIDLY	0.25010	0.10443	-0.29310	INSCIDLY	0.41374

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.16356	56.9	56.9
2	1.11366	15.2	72.2
3	1.04737	14.3	86.5

Factor Analysis for Perceived Mode Attributes

TABLE C-2

Factor Matrix for Bicycle

(Combined Sites - Work Trips)

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.10906	-0.12536	0.47111	QD1	0.49027
CNVERRND	-0.02970	-0.09233	0.13030	QD2	0.46300
SKEDFLEX	0.01413	-0.26049	0.21444	QD3	0.32000
TIRING	0.22250	0.50644	-0.22189	QD4	0.51880
DANGER	0.71935	0.15072	0.02139	QD5	0.57094
LATEWORY	0.16170	0.70391	-0.14489	QD6	0.57872
RAINRELY	0.18958	0.20279	0.16469	QD7	0.23756
PCKAGES	-0.07400	-0.25554	0.00870	QD8	0.23264
BUMPY	0.44728	0.21102	-0.16208	QD9	0.29073
SPEED	-0.09064	-0.60707	0.20041	QD10	0.50321
MUGGEN	0.35074	0.37586	-0.12040	QD11	0.35217
INJURY	0.74045	0.22233	-0.00065	QD12	0.62041
RELAX	-0.22274	-0.29200	0.43833	QD13	0.49443
INSCIDLY	0.40615	0.24002	-0.14142	QD14	0.29199
UNSAFE	0.73573	0.01922	0.00691	QD15	0.55261
INCONSID	0.65013	0.02200	0.20020	QD16	0.47022
SWEAT	0.21100	0.39059	0.05463	QD17	0.32407
HEALTHY	0.06072	-0.05524	0.60311	QD18	0.37387
	-0.11740	0.02636	0.13045	QD19	0.47197
	0.02936	0.09621	-0.30530	QD20	0.29369
	0.17427	0.10002	0.14086	QD21	0.47671
	0.06548	-0.06650	0.26407	QD22	0.08462

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.79584	53.2	53.2
2	1.95426	21.7	74.8
3	1.00513	11.1	86.0

TABLE C-3

Factor Matrix for Car
(Combined Sites - Work Trips)

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
CREATOUT	-0.05476	0.53029	-0.06020	CREATOUT	0.32566
CHVRRND	-0.20463	0.23922	-0.04013	CHVRRND	0.59990
SEDFLEX	-0.10374	0.12358	-0.04409	SEDFLEX	0.47223
FIRING	0.13132	-0.59585	0.35200	FIRING	0.53241
DANGER	0.03327	-0.31154	0.70111	DANGER	0.59036
LATEWORY	0.27380	-0.25467	0.32733	LATEWORY	0.33218
RAINRELY	0.21133	-0.11992	0.24701	RAINRELY	0.33797
PACKAGES	-0.07097	0.07240	0.00097	PACKAGES	0.26344
BUMPY	0.29272	-0.02607	0.33909	BUMPY	0.25974
SPEED	-0.21280	0.40552	-0.09030	SPEED	0.41667
BUGGEN	0.19061	0.01636	0.20129	BUGGEN	0.29140
INJURY	0.05312	-0.09563	0.70200	INJURY	0.50853
RELAX	-0.09219	0.70707	-0.14804	RELAX	0.67212
INSCDLY	0.28975	-0.34410	0.39183	INSCDLY	0.39046
PRKEXPNS	0.67456	-0.16207	0.06949	PRKEXPNS	0.54103
ALKAFFRK	0.57056	-0.02601	0.07342	ALKAFFRK	0.37065
THEFT	0.49295	-0.01704	0.30906	THEFT	0.34022
COST	-0.09677	0.00683	-0.07405	COST	0.06570
PRKATWRK	-0.79438	0.22089	0.00204	PRKATWRK	0.71323

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.49064	56.0	56.0
2	1.33622	16.6	72.6
3	1.04166	13.0	85.5

TABLE C-4

Factor Matrix for Bus

(Combined Sites - Work Trips)

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.11760	0.09791	-0.62397	GREATOUT	0.47276
CHVERRND	-0.05675	0.19219	-0.02335	CHVERRND	0.10135
SKEDFLEX	0.04019	0.40626	-0.00504	SKEDFLEX	0.25277
TIRING	0.20095	0.34036	0.57062	TIRING	0.57389
DANGER	0.69995	0.10793	0.13797	DANGER	0.49619
LATEWORY	0.19757	0.47041	0.10650	LATEWORY	0.56799
RAINRELY	0.24574	0.30464	0.19492	RAINRELY	0.42992
PACKAGES	-0.23463	-0.12654	-0.35113	PACKAGES	0.20024
BUMPY	0.42215	-0.05286	0.27691	BUMPY	0.30371
SPEED	-0.07565	-0.54029	-0.10604	SPEED	0.44509
BUGGED	0.54237	0.19015	0.13056	BUGGED	0.36185
INJURY	0.03376	0.07041	0.03934	INJURY	0.70381
RELAX	-0.12506	-0.06431	-0.72589	RELAX	0.50784
IMSCIDLY	0.26404	0.32002	0.23230	IMSCIDLY	0.32644
DISTORUS	0.22659	0.53279	-0.03443	DISTORUS	0.34037
BUSWAIT	0.07418	0.66971	0.14756	BUSWAIT	0.51460
SWEAT	0.45760	0.15225	0.27385	SWEAT	0.33007
COST	-0.01913	-0.04904	-0.16100	COST	0.07924

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.21719	59.4	59.4
2	1.30199	18.3	77.8
3	1.02026	14.4	92.1

TABLE C-5

Factor Matrix for Walk

(Combined Sites - Work Trips)

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
CREATOUT	-0.20044	-0.20100	0.52109	CREATOUT	0.54919
C.VERRND	-0.11797	-0.27310	0.19047	C.VERRND	0.49516
PKDFLEX	-0.09949	-0.23279	0.21940	PKDFLEX	0.49456
TIRING	0.21124	0.62709	-0.36050	TIRING	0.62660
DANGER	0.73372	0.19602	-0.00606	DANGER	0.69523
LATEWORY	0.22378	0.63020	-0.13074	LATEWORY	0.54565
RAINRELY	0.22016	0.61234	0.07009	RAINRELY	0.52773
PKGAGES	-0.09796	-0.31179	0.17529	PKGAGES	0.25297
PUNPY	0.53144	0.17942	-0.11593	PUNPY	0.37053
SPEED	-0.12039	-0.63910	0.10755	SPEED	0.50910
FUGGED	0.24741	0.29370	-0.14237	FUGGED	0.33971
INJURY	0.54575	0.13070	-0.11635	INJURY	0.79271
RELAX	-0.10540	-0.41571	0.61930	RELAX	0.63395
INSCIDLY	0.51091	0.30009	-0.14232	INSCIDLY	0.41202
UNSAFE	0.06197	0.15711	-0.09005	UNSAFE	0.79044
INCONSID	0.67501	0.11031	0.00421	INCONSID	0.47299
SWEAT	0.26715	0.40065	-0.13637	SWEAT	0.36053
HEALTHY	-0.04760	-0.04267	0.62160	HEALTHY	0.41809

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	6.15699	65.7	65.7
2	1.64002	17.5	83.2
3	0.70790	7.6	90.7

TABLE C-6

Factor Matrix for Bicycle:

Columbus Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.11627	0.61336	-0.22200	GREATOUT	0.44549
CNVERRND	0.02021	0.50679	0.03400	CNVERRND	0.37450
SKEDFLEX	-0.09079	0.49799	-0.13602	SKEDFLEX	0.30165
TIRING	0.13103	-0.39923	0.60536	TIRING	0.54323
DANGER	0.61310	-0.21309	0.22761	DANGER	0.40660
LATEWORY	0.19369	-0.19438	0.64014	LATEWORY	0.40003
RAINRELY	0.21754	-0.14766	0.00225	RAINRELY	0.35973
PCKAGES	-0.07063	0.10517	-0.23462	PCKAGES	0.27592
BUMPY	0.35127	-0.14492	0.31056	BUMPY	0.25936
SPEED	-0.16613	0.33747	-0.51007	SPEED	0.42576
MUGGED	0.27607	0.05301	0.44051	MUGGED	0.27524
INJURY	0.61139	-0.16322	0.32722	INJURY	0.51161
RELAX	-0.04466	0.64606	-0.37320	RELAX	0.56132
INSCDLY	0.36930	-0.22229	0.36506	INSCDLY	0.31973
UNSAFE	0.69648	0.03091	0.00316	UNSAFE	0.55049
INCONSID	0.60940	0.07123	0.03611	INCONSID	0.40352
SWEAT	0.04884	-0.15796	0.52137	SWEAT	0.39927
HEALTHY	0.12994	0.24743	-0.14680	HEALTHY	0.26093

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.34651	59.9	59.9
2	1.51920	21.0	80.9
3	0.86707	12.0	92.0

TABLE C-7

Factor Matrix for Bicycle:

Denver Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.16330	0.64782	-0.29101	GREATOUT	0.53220
CNVERRND	-0.04127	0.44250	-0.06494	CNVERRND	0.33978
SKEDFLEX	-0.01390	0.45399	-0.00041	SKEDFLEX	0.37021
TIRING	0.22625	-0.10197	0.70207	TIRING	0.76157
DANGER	0.73530	-0.02260	0.22743	DANGER	0.59732
LATEWORY	0.30029	-0.16561	0.33639	LATEWORY	0.54074
RAINRELY	0.17669	0.05493	0.12457	RAINRELY	0.22632
PCKAGES	-0.06463	0.14031	-0.36315	PCKAGES	0.17757
DUMPY	0.40290	-0.11533	0.16069	BUMPY	0.30119
SPEED	-0.12906	0.29324	-0.40903	SPEED	0.39509
MUGGED	0.40021	-0.09327	0.30110	MUGGED	0.20751
INJURY	0.77945	-0.03902	0.21155	INJURY	0.67401
RELAX	-0.16967	0.47042	-0.40643	RELAX	0.51601
INSCIDLY	0.57947	-0.22500	-0.02912	INSCIDLY	0.42941
UNSAFE	0.72631	-0.00011	0.06237	UNSAFE	0.53659
INCONSID	0.64603	0.24692	0.00290	INCONSID	0.50794
SWEAT	0.23430	-0.01070	0.24060	SWEAT	0.37072
HEALTHY	0.00703	0.53271	-0.11061	HEALTHY	0.30760

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.01656	61.1	61.1
2	1.07625	23.0	84.9
3	0.69649	0.0	93.0

TABLE C-8

Factor Matrix for Bicycle:

Huntington Beach Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.15046	0.61591	-0.14395	GREATOUT	0.47890
CNVERRND	-0.06632	0.59730	-0.14059	CNVERRND	0.54616
SKEDFLEX	-0.06240	0.24170	-0.11029	SKEDFLEX	0.56022
TIRING	0.16631	-0.47050	0.62012	TIRING	0.65101
DANGER	0.79263	-0.25364	0.21639	DANGER	0.74039
LATEWORY	0.20430	-0.13492	0.63159	LATEWORY	0.57190
RAINRELY	0.27713	-0.11012	0.33912	RAINRELY	0.33740
PCKAGES	-0.11017	0.53417	-0.16626	PCKAGES	0.37496
BUMPY	0.35553	-0.14677	0.34005	BUMPY	0.40405
SPEED	-0.17974	0.25903	-0.56474	SPEED	0.46014
MUGGED	0.39934	0.04499	0.42010	MUGGED	0.51249
INJURY	0.05272	-0.20406	0.22436	INJURY	0.01928
RELAX	-0.13346	0.68472	-0.31703	RELAX	0.66094
INSCDLY	0.35073	-0.24243	0.40309	INSCDLY	0.37049
UNSAFE	0.75309	-0.06725	0.13562	UNSAFE	0.60770
INCONSID	0.67043	-0.02159	0.19407	INCONSID	0.50632
SWEAT	0.21775	-0.16406	0.52260	SWEAT	0.34825
HEALTHY	-0.04703	0.29516	-0.15057	HEALTHY	0.55001

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	5.80794	60.9	60.9
2	1.66772	17.5	70.4
3	0.70095	0.2	06.6

TABLE C-9

Factor Matrix for Car:
Columbus Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.02400	0.21531	-0.07006	GREATOUT	0.24263
CNVERRND	-0.06036	0.64197	-0.03507	CNVERRND	0.44307
SKEDFLEX	-0.09413	0.50355	-0.06406	SKEDFLEX	0.41019
TIRING	0.56679	-0.14659	0.21509	TIRING	0.45769
DANGER	0.70221	0.00159	0.02625	DANGER	0.51432
LATEWORY	0.45537	-0.05975	0.19470	LATEWORY	0.27393
RAINRELY	0.31073	-0.06645	0.15597	RAINRELY	0.35447
PCKAGES	-0.06521	0.11994	-0.07974	PCKAGES	0.45956
BUMPY	0.55406	-0.05645	0.11712	BUMPY	0.34376
SPEED	-0.07409	0.20511	-0.06160	SPEED	0.42252
MUGGED	0.22500	-0.07900	0.12473	MUGGED	0.53007
INJURY	0.55415	-0.01002	0.04209	INJURY	0.48010
RELAX	-0.15596	0.13509	-0.07833	RELAX	0.51300
INSCIDLY	0.51472	-0.02276	0.02525	INSCIDLY	0.30049
PRKEXPNS	0.26520	-0.09006	0.41500	PRKEXPNS	0.35984
WLKAFPRK	0.22105	-0.00102	0.60222	WLKAFPRK	0.52527
THEFT	0.32750	-0.00990	0.31347	THEFT	0.28040
COST	-0.03716	-0.07925	0.07156	COST	0.10909
PRKATMRK	-0.03234	0.07030	-0.77200	PRKATMRK	0.63719

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.59124	46.7	46.7
2	1.23616	16.1	62.8
3	1.06060	13.0	76.6

Factor Matrix for Car:

Denver Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	0.02092	0.02999	-0.61273	GREATOUT	0.41109
CNVERRND	-0.03627	-0.00722	0.00606	CNVERRND	0.54210
SKEDFLEX	-0.09247	-0.22245	0.06043	SKEDFLEX	0.43094
TIRING	0.15260	0.30543	-0.61010	TIRING	0.51022
DANGER	0.02153	0.24470	-0.30375	DANGER	0.54724
LATEWORY	0.16764	0.43407	-0.08012	LATEWORY	0.27625
RAINRELY	0.06002	0.65091	-0.07772	RAINRELY	0.46375
PCKAGES	-0.08000	-0.20337	-0.07136	PCKAGES	0.36076
BUMPY	0.13134	0.44203	-0.13017	BUMPY	0.34623
SPEED	-0.14240	-0.39411	0.24523	SPEED	0.36070
MUGGEN	0.09240	0.47552	0.07045	MUGGEN	0.32203
INJURY	0.05656	0.09760	-0.14154	INJURY	0.73900
RELAX	-0.07812	-0.00376	0.74697	RELAX	0.59764
INSCDLY	0.14331	0.15192	-0.32003	INSCDLY	0.27644
PRKEXPNS	0.73214	0.09007	-0.05305	PRKEXPNS	0.55152
WLKAFPRK	0.61462	0.19299	-0.02634	WLKAFPRK	0.42979
THEFT	0.46945	0.06483	-0.03606	THEFT	0.30036
COST	0.02010	0.04594	-0.01179	COST	0.00256
PRKATWRK	-0.01357	-0.00669	0.12490	PRKATWRK	0.71561

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.65163	43.6	43.6
2	1.56273	18.7	62.3
3	1.10359	14.1	76.4

TABLE C-11

Factor Matrix for Car:
Huntington Beach Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.03460	0.00723	0.20778	GREATOUT	0.43950
CNVERRND	-0.00760	-0.13040	0.60516	CNVERRND	0.46093
SKEDFLEX	-0.15005	-0.04779	0.60349	SKEDFLEX	0.49635
TIRING	0.47351	0.12024	-0.07300	TIRING	0.55564
DANGER	0.71707	0.05890	-0.10007	DANGER	0.64473
LATEWORY	0.50521	0.22522	-0.16040	LATEWORY	0.44511
RAINRELY	0.37066	0.20699	-0.22724	RAINRELY	0.20627
PCKAGES	-0.06630	-0.26519	0.42059	PCKAGES	0.33037
BUMPY	0.19030	0.19114	-0.09469	BUMPY	0.61300
SPEED	-0.30147	-0.05648	0.29613	SPEED	0.27135
MUGGEN	0.27714	0.30910	-0.00570	MUGGEN	0.31605
INJURY	0.65740	0.11146	-0.00075	INJURY	0.50042
RELAX	-0.30300	-0.02413	0.13766	RELAX	0.66931
INSCDLY	0.30465	0.17992	-0.06093	INSCDLY	0.33970
PRKEXPNS	0.11680	0.60140	-0.06019	PRKEXPNS	0.30235
WLKAFPRK	-0.00254	0.69934	-0.11008	WLKAFPRK	0.50863
THEFT	0.16040	0.56954	-0.00647	THEFT	0.36524
COST	-0.06001	-0.04066	-0.01311	COST	0.03607
PRKATWRK	-0.10666	-0.63393	0.12000	PRKATWRK	0.43746

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.33019	53.5	53.5
2	1.62750	20.1	73.6
3	0.00135	10.9	84.4

TABLE C-12

Factor Matrix for Bus:
Columbus Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.11572	0.14190	0.00576	GREATOUT	0.60167
CNVERRND	0.10432	-0.00290	0.33164	CNVERRND	0.14724
SKEDFLEX	0.25063	-0.24302	-0.00050	SKEDFLEX	0.22000
TIRING	0.34650	0.10369	-0.04901	TIRING	0.66050
DANGER	0.10597	0.59207	-0.06463	DANGER	0.62510
LATEWORY	0.63356	0.09223	0.05246	LATEWORY	0.46111
RAINRELY	0.39131	0.01635	-0.00110	RAINRELY	0.27132
PCKAGES	-0.17309	-0.15092	-0.04661	PCKAGES	0.10003
BUMPY	-0.07390	0.10507	0.05706	BUMPY	0.97279
SPEED	-0.63672	0.06665	-0.21260	SPEED	0.49130
MUGGED	0.02794	0.56424	0.07405	MUGGED	0.33974
INJURY	0.02005	0.05106	0.04232	INJURY	0.02984
RELAX	-0.29265	0.05490	-0.06074	RELAX	0.48169
INSCDLY	0.50104	0.24477	0.12997	INSCDLY	0.34991
DSTTORUS	0.34400	0.06054	-0.00403	DSTTORUS	0.20174
BUSWAIT	0.64374	-0.09776	-0.12133	BUSWAIT	0.52340
SWEAT	0.07410	0.24297	0.02249	SWEAT	0.20922
COST	-0.050A7	-0.09001	-0.04499	COST	0.64656

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.28075	39.4	39.4
2	1.70763	21.5	60.9
3	1.19635	14.4	75.3

TABLE C-13

Factor Matrix for Bus:

Denver Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.14677	-0.00339	0.60304	GREATOUT	0.50200
CNVERRND	-0.09495	0.24590	0.03647	CNVERRND	0.20010
SKEDFLEX	0.01324	0.00524	-0.00630	SKEDFLEX	0.45415
TIRING	0.27674	0.20924	-0.50140	TIRING	0.60399
DANGER	0.70902	0.04770	-0.11369	DANGER	0.53094
LATEWORY	0.26050	0.50104	-0.14604	LATEWORY	0.56673
RAINRELY	0.26727	0.22150	-0.14730	RAINRELY	0.30026
PCKAGES	-0.11757	-0.03427	0.25709	PCKAGES	0.25253
BUMPY	0.56652	0.07452	-0.16022	BUMPY	0.36110
SPEED	-0.10170	-0.69097	0.23527	SPEED	0.56122
MUGGED	0.40190	0.12019	0.02716	MUGGED	0.27030
INJURY	0.78345	-0.04224	-0.06402	INJURY	0.63123
RELAX	-0.10376	-0.09605	0.70606	RELAX	0.60100
INSCDLY	0.34660	0.40297	-0.23453	INSCDLY	0.43031
DSTTORUS	0.19010	0.46729	0.14115	DSTTORUS	0.30799
BUSWAIT	0.06912	0.59553	-0.03903	BUSWAIT	0.49038
SWEAT	0.41900	0.16431	-0.13709	SWEAT	0.32930
COST	0.10506	-0.24064	0.11046	COST	0.09042

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.16755	54.4	54.4
2	1.52677	19.9	74.3
3	1.00133	14.1	88.5

TABLE C-14

Factor Matrix for Bus:
Huntington Beach Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.23393	-0.69175	-0.14332	GREATOUT	0.58717
CNVERRND	-0.00534	-0.15249	0.16301	CNVERRND	0.05757
SKEDFLEX	-0.10669	0.00110	0.49736	SKEDFLEX	0.27652
TIRING	0.20292	0.45422	0.25018	TIRING	0.42300
DANGER	0.73266	0.02177	-0.02059	DANGER	0.56440
LATEWORY	0.25569	0.10467	0.34906	LATEWORY	0.62711
RAINRELY	0.01015	0.20525	0.10723	RAINRELY	0.59017
PCKAGES	-0.30200	-0.29066	-0.09333	PCKAGES	0.25236
BUMPY	0.31912	0.34603	-0.05137	BUMPY	0.34120
SPEED	-0.00303	-0.07362	-0.46690	SPEED	0.33405
MUGGED	0.50031	0.13059	0.10660	MUGGED	0.42697
INJURY	0.02941	0.16965	-0.03000	INJURY	0.71990
RELAX	-0.20330	-0.69005	-0.10798	RELAX	0.59355
INSCIDLY	0.23196	0.14964	0.27054	INSCIDLY	0.24667
DSTTORUS	0.25226	0.33304	0.30606	DSTTORUS	0.34251
BUSWAIT	0.14523	0.16966	0.74073	BUSWAIT	0.62415
SWEAT	0.42292	0.33247	0.00699	SWEAT	0.35016
COST	-0.21015	-0.09601	-0.04421	COST	0.05563

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.67965	63.1	63.1
2	1.46765	19.8	82.9
3	0.67765	9.1	92.1

TABLE C-15

Factor Matrix for Walk:

Columbus Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.20903	0.47474	0.23806	GREATOUT	0.52211
CNVERRND	0.10713	0.36554	0.47211	CNVERRND	0.40500
SKEDFLEX	-0.10043	0.68066	0.15906	SKEDFLEX	0.52525
TIRING	0.14924	-0.00716	-0.38469	TIRING	0.63207
DANGER	0.00405	-0.10600	-0.13600	DANGER	0.72564
LATEWORY	0.19936	-0.21513	-0.44912	LATEWORY	0.48092
RAINRELY	0.19247	-0.27100	-0.41922	RAINRELY	0.40606
PCKAGES	-0.11053	0.06431	0.40204	PCKAGES	0.31150
BUMPY	0.40429	-0.00432	-0.15354	BUMPY	0.20162
SPEED	-0.00327	0.24799	0.59234	SPEED	0.53165
MUGGED	0.26566	0.01375	-0.00804	MUGGED	0.29565
INJURY	0.58145	-0.13014	0.01591	INJURY	0.50957
RELAX	-0.00977	0.33160	0.23047	RELAX	0.50409
INSCIDLY	0.40431	-0.09505	-0.00503	INSCIDLY	0.41003
UNSAFE	0.00009	-0.05932	-0.17103	UNSAFE	0.60962
INCONSID	0.60470	-0.02062	-0.02173	INCONSID	0.48040
SWEAT	0.24027	0.02919	-0.41575	SWEAT	0.30255
HEALTHY	-0.01532	0.12024	0.12373	HEALTHY	0.50322

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.07044	57.2	57.2
2	1.03500	21.6	78.7
3	0.71425	8.4	87.1

TABLE C-16

Factor Matrix for Walk:

Denver Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.09201	-0.15377	0.64205	GREATOUT	0.54216
CNVERRND	-0.10607	-0.22064	0.27354	CNVERRND	0.37040
SKEDFLEX	-0.02240	-0.21243	0.23574	SKEDFLEX	0.33440
TIRING	0.23007	0.56033	-0.31099	TIRING	0.49757
DANGER	0.71533	0.20057	-0.16519	DANGER	0.59652
LATEWORY	0.15400	0.61053	-0.13055	LATEWORY	0.49052
RAINRELY	0.09660	0.61327	0.07057	RAINRELY	0.41134
PCKAGES	-0.23659	-0.05322	0.16591	PCKAGES	0.30134
BUMPY	0.39620	0.10056	-0.04094	BUMPY	0.33410
SPEED	-0.02204	-0.40551	0.07464	SPEED	0.55039
MUGGED	0.40702	0.44054	-0.10401	MUGGED	0.40200
INJURY	0.70803	0.31130	-0.13512	INJURY	0.61750
RELAX	-0.07360	-0.29047	0.02610	RELAX	0.77914
INSCDLY	0.70246	-0.00766	0.06050	INSCDLY	0.60063
UNSAFE	0.71071	0.10014	-0.00345	UNSAFE	0.53571
INCONSID	0.64133	0.07507	0.04390	INCONSID	0.43371
SWEAT	0.36231	0.45533	-0.00095	SWEAT	0.41072
HEALTHY	-0.03020	0.21617	0.60063	HEALTHY	0.63636

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	5.14327	50.0	50.0
2	1.05672	21.0	79.0
3	1.11700	12.6	91.6

TABLE C-17

Factor Matrix for Walk:
Huntington Beach Work Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	VARIABLE	COMMUNALITY
GREATOUT	-0.08329	-0.31705	-0.01357	0.67924	GREATOUT	0.56901
CNVERRND	-0.11320	-0.10641	0.03612	0.53114	CNVERRND	0.30757
SKEDFLEX	-0.09127	-0.51070	0.08726	0.27793	SKEDFLEX	0.35901
TIRING	0.19347	0.28332	0.62879	-0.22387	TIRING	0.56320
DANGER	0.06087	0.26381	0.02056	-0.12693	DANGER	0.82762
LATEWORY	0.25357	0.58194	0.39236	-0.09476	LATEWORY	0.56587
RAINRELY	0.03791	0.59862	0.27610	-0.00328	RAINRELY	0.43602
PCKAGES	-0.17886	-0.42488	-0.13861	0.09505	PCKAGES	0.24077
BUMPY	0.57310	-0.02959	0.31983	-0.07825	BUMPY	0.43783
SPEED	-0.02942	-0.57572	-0.14910	0.24092	SPEED	0.41651
MUGGED	0.35733	0.21945	0.52399	0.08334	MUGGED	0.45735
INJURY	0.74372	0.25880	0.01785	-0.21753	INJURY	0.66778
RELAX	0.04796	-0.26065	-0.54883	-0.68850	RELAX	0.84560
INSCDLY	0.54512	0.07627	0.45130	-0.24772	INSCDLY	0.56801
UNSAFE	0.83366	-0.03203	0.17598	-0.13780	UNSAFE	0.74598
INCONSID	0.68695	-0.22351	-0.19847	-0.00295	INCONSID	0.56125
SWEAT	0.26217	0.36815	0.47103	-0.08487	SWEAT	0.43334
HEALTHY	-0.19809	-0.01205	-0.21391	0.54611	HEALTHY	0.38338

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	5.70792	60.8	60.8
2	1.86105	19.8	80.7
3	1.03212	11.0	91.7

TABLE C-18

Factor Matrix for Bicycle:

Columbus Shopping Trips

VALIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	VARIABLE	COMMUNALITY
GREATOUT	0.73393	-0.14154	-0.00464	0.10292	-0.11277	GREATOUT	0.50900
COVERED	0.67903	-0.02537	-0.00625	-0.24334	-0.00780	COVERED	0.50891
SKIDFLX	0.55692	-0.13568	0.10575	-0.20221	0.02609	SKIDFLX	0.40460
TIRING	-0.19633	0.31015	0.12361	0.12029	0.60517	TIRING	0.54263
DANGER	-0.19070	0.42790	0.56060	0.03707	0.00561	DANGER	0.15320
LATEJURY	-0.01303	0.05263	0.33002	0.04060	0.19763	LATEJURY	0.27523
RELAXFLY	-0.04245	0.02421	0.42516	0.09100	0.20073	RELAXFLY	0.40932
PERKAGE	0.38600	0.04007	-0.23064	-0.30060	-0.24339	PERKAGE	0.30376
BUY	-0.07626	0.59350	0.05575	0.00000	0.16900	BUY	0.46060
SPEED	0.41141	-0.23557	0.00219	-0.10607	-0.44066	SPEED	0.33912
WAGGED	-0.09204	0.55012	-0.02067	0.13106	0.07600	WAGGED	0.60172
FLAX	-0.16207	0.57062	0.46739	0.14209	-0.07973	FLAX	0.49260
RELAXFLY	0.60671	-0.17123	-0.10766	-0.04000	-0.24159	RELAXFLY	0.33559
WAGGED	-0.20767	0.49603	0.17507	0.09041	0.10255	WAGGED	0.66655
WAGGED	-0.03056	0.23971	0.77247	0.10065	-0.02764	WAGGED	0.53726
WAGGED	0.01302	0.49063	0.53330	0.10012	-0.01301	WAGGED	0.25075
WAGGED	-0.04013	0.37599	0.01710	0.23590	0.24475	WAGGED	0.33400
WAGGED	0.31000	-0.10405	0.46310	-0.00074	-0.05190	WAGGED	0.44910
WAGGED	0.26534	-0.11500	-0.01940	-0.59000	-0.07764	WAGGED	0.40700
WAGGED	-0.02002	0.25477	0.15304	0.55710	0.08893	WAGGED	0.13031
WAGGED	0.23724	-0.05205	0.22900	-0.12246	-0.05005	WAGGED	
	FACTOR		FLC-VALUE	PCT OF VAR	CUM PCT		
	1		4.55777	51.2	51.2		
	2		2.12005	23.8	75.0		
	3		0.00907	9.9	84.9		

TABLE C-19

Factor Matrix for Bicycle:

Denver Shopping Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	VARIABLE	COMMUNALITY
GRATUIT	-0.03267	0.57017	-0.19325	0.01573	-0.01044	0.09944	GRATUIT	0.39316
CONVEHUE	-0.11499	0.64431	-0.04940	-0.06734	0.20216	0.16349	CONVEHUE	0.50294
SCHEDULE	0.00596	0.63391	-0.12091	-0.00996	0.07144	-0.03337	SCHEDULE	0.42202
FIRING	0.09540	-0.20647	0.30777	0.22300	0.01035	-0.04573	FIRING	0.50110
DANGER	0.57272	-0.06907	0.32012	0.36607	0.00634	-0.06261	DANGER	0.57301
LATIMORY	0.13915	0.03450	0.04362	0.45707	-0.03620	-0.03044	LATIMORY	0.23404
RATHERLY	0.11719	-0.10025	0.09844	0.07916	-0.03516	-0.00693	RATHERLY	0.05013
PACKAGES	-0.14410	0.30432	0.05144	-0.21209	0.12017	0.26125	PACKAGES	0.30114
BURPY	0.25032	-0.17755	0.40505	0.05630	-0.03352	-0.00329	BURPY	0.33454
SPEED	-0.11642	0.04130	-0.10952	-0.15302	0.05021	0.50250	SPEED	0.50000
AUGGED	0.04195	-0.05013	0.59011	0.00369	-0.07100	-0.20340	AUGGED	0.39990
INJURY	0.00141	-0.09530	0.53663	0.20505	-0.14562	0.00600	INJURY	0.57246
RELAX	-0.13015	0.50650	-0.34975	-0.11730	0.13274	0.25195	RELAX	0.44174
INSCIDLY	0.35206	-0.20434	0.40243	-0.02214	-0.10456	0.09376	INSCIDLY	0.70569
JUSTAF	0.05200	-0.12016	0.07071	0.15219	-0.09977	-0.06369	JUSTAF	0.56647
INCONSID	0.71323	0.02307	0.20772	0.00033	-0.07640	-0.02016	INCONSID	0.27275
SEAL	0.07112	-0.14656	0.45700	0.00900	-0.10954	-0.12090	SEAL	0.26342
HEALTHY	0.25294	0.35090	-0.24221	0.09574	0.04692	0.07000	HEALTHY	0.65540
PRKATSHIP	-0.02359	0.16457	-0.00805	-0.02040	0.70227	0.00740	PRKATSHIP	0.30010
DIFF	0.21699	-0.00576	0.20751	0.09291	-0.43566	-0.06521	DIFF	0.15202
COST	0.07297	0.07037	-0.13225	0.11176	0.15145	0.26000	COST	

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.01360	50.7	50.7
2	1.03700	12.9	70.1
3	1.03193	10.9	81.0

TABLE C-20

Factor Matrix for Bicycle:

Huntington Beach Shopping Trips

VARIABLES ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	VARIABLE	COMMUNITY
GREATOUT	-0.11007	0.67540	-0.06199	0.23793	-0.00263	0.04074	GREATOUT	0.53039
CONVERTING	-0.00393	0.35973	-0.11024	0.40541	-0.17150	0.09470	CONVERTING	0.42194
SKEDDLE	0.00751	0.27605	-0.03642	0.61655	-0.19214	0.24226	SKEDDLE	0.55370
FIRING	0.13999	-0.33590	0.57675	-0.11613	0.17206	-0.07740	FIRING	0.51445
DANGER	0.70607	-0.22021	0.10290	-0.02747	0.20534	0.00930	DANGER	0.66633
LATEMORY	0.13705	-0.01112	-0.00057	-0.05113	0.50391	0.01079	LATEMORY	0.27556
RAINRELY	0.10696	-0.02011	0.17160	-0.10692	0.64099	0.19543	RAINRELY	0.51194
PACKAGES	-0.04599	0.07623	-0.29216	0.42041	-0.11147	-0.17775	PACKAGES	0.32093
BUMPY	0.35526	0.01714	0.39235	-0.00247	0.00593	-0.17492	BUMPY	0.31790
SPEED	0.01710	0.31465	-0.52662	0.35169	-0.07907	0.03616	SPEED	0.50000
PUGGED	0.39506	-0.03610	0.26904	0.06317	0.04755	-0.054539	PUGGED	0.53707
INJURY	0.63563	-0.23025	0.13456	0.00925	0.16900	-0.12229	INJURY	0.52666
RELAX	-0.10653	0.66327	-0.29651	0.24017	0.01515	0.00433	RELAX	0.60421
INSCIDLY	0.50499	-0.10573	0.24734	-0.09632	0.06925	-0.10050	INSCIDLY	0.35155
UNSAFE	0.60259	0.00011	0.06052	-0.02900	0.01797	0.05026	UNSAFE	0.37150
INCOHSIO	0.60465	-0.01060	0.00403	-0.06703	0.02171	0.13734	INCOHSIO	0.49272
SWEAT	0.20069	-0.03742	0.30149	-0.11053	-0.03226	-0.03577	SWEAT	0.19010
HEALTHY	0.05514	0.29260	-0.10292	0.10260	0.25164	0.30794	HEALTHY	0.32360
PRKATSHIP	-0.10794	0.11200	-0.11800	0.30130	0.13260	0.07013	PRKATSHIP	0.23115
THEFT	0.32303	0.04411	-0.04045	-0.00293	0.09390	0.03604	THEFT	0.12492
COST	0.10901	0.02037	0.01040	0.09522	0.00670	0.46531	COST	0.24591

TABLE C-21

Factor Matrix for Car:
Columbus Shopping Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	VARIABLE	COMMUNIT
GREATOUT	-0.09665	0.20392	0.05962	0.36700	0.01070	GREATOUT	0.22854
CONVERRND	-0.10357	0.60956	-0.05092	-0.06246	-0.03334	CONVERRND	0.51690
SKEDFLEX	-0.04107	0.52204	-0.11072	-0.06071	0.06227	SKEDFLEX	0.29594
TIRING	0.46073	-0.14090	0.40943	-0.01106	0.10470	TIRING	0.41630
DANGER	0.70116	-0.00444	0.02569	0.10001	0.00202	DANGER	0.51644
LATEVORY	0.04052	-0.14197	0.32395	-0.00596	0.01630	LATEVORY	0.12776
RAINRELY	0.21900	-0.13077	0.64790	0.10216	0.00037	RAINRELY	0.52002
PACKAGES	0.04725	0.39579	-0.19611	-0.07124	-0.22750	PACKAGES	0.25410
BUMPY	0.40550	-0.10194	0.18605	0.14010	0.21069	BUMPY	0.27352
SPEED	-0.09627	0.55224	-0.23626	-0.09992	-0.05171	SPEED	0.30271
MUGGED	0.23544	-0.02439	0.23905	0.15600	0.66290	MUGGED	0.57696
INJURY	0.61437	0.01491	-0.02667	0.12555	0.35694	INJURY	0.52155
RELAX	-0.33410	0.39120	0.10291	0.22131	0.00450	RELAX	0.32424
INSCIDLY	0.53423	-0.11030	0.06950	-0.00204	-0.00896	INSCIDLY	0.31051
PEREXPNS	0.07754	-0.22966	0.20573	0.50994	0.22319	PEREXPNS	0.41094
WKAFFPR	0.37976	-0.13404	0.29560	0.47170	-0.02317	WKAFFPR	0.47265
THEFT	0.37112	-0.11323	-0.01597	0.45756	0.21518	THEFT	0.40647
COST	-0.09406	0.00450	0.31520	0.16411	0.13266	COST	0.15290
PRKATSHIP	-0.29526	0.26732	-0.05401	-0.33160	0.00503	PRKATSHIP	0.27160

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.72735	53.3	53.3
2	1.22048	17.5	70.8
3	1.04743	15.0	85.8

TABLE C-22

Factor Matrix for Cal:

Denver Shopping Trips

MAXIMUM ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	VARIABLE	COMMUNALITY
GREATOUT	-0.09297	-0.07091	0.02052	0.10754	0.51972	GREATOUT	0.31393
CHVERRRD	-0.13643	-0.04075	0.26907	0.60040	0.14654	CHVERRRD	0.44474
SKEDFLX	-0.10709	-0.07339	0.37577	0.56260	0.08022	SKEDFLX	0.40120
TIRING	0.42202	0.20157	-0.11330	-0.24025	-0.23016	TIRING	0.30926
DANGER	0.67062	0.10760	0.05110	-0.00626	-0.13416	DANGER	0.52300
LATEMORY	0.03947	0.10740	-0.01610	-0.24422	0.06077	LATEMORY	0.10123
RAINRELY	0.17557	0.31072	-0.39042	-0.34445	0.06532	RAINRELY	0.40902
PACKAGES	-0.01114	-0.15260	0.57303	0.11663	0.00430	PACKAGES	0.36544
BUMPY	0.51707	0.21917	-0.08059	-0.16900	-0.02639	BUMPY	0.35270
SPEED	-0.07542	-0.10467	0.65531	0.27007	0.10203	SPEED	0.53397
MUGGEN	0.44336	0.24507	-0.36761	-0.04503	0.25504	MUGGEN	0.45930
INJURY	0.31370	0.01714	-0.10336	0.03214	-0.01751	INJURY	0.67455
RELAX	-0.29401	-0.00057	0.29739	0.00100	0.74403	RELAX	0.73495
INSCIPLY	0.49671	0.15706	-0.01556	-0.14000	-0.21594	INSCIPLY	0.33036
PRKEXPNS	0.22909	0.72602	-0.11091	-0.10776	0.01611	PRKEXPNS	0.60597
WLKAFPRK	0.33361	0.64440	-0.21355	-0.02360	0.00626	WLKAFPRK	0.63331
THEFT	0.53948	0.42301	-0.11913	-0.05057	0.11112	THEFT	0.49955
COST	0.01432	0.06997	-0.06137	-0.04094	0.24960	COST	0.07360
PRKATSHUP	-0.16048	-0.54123	0.15772	0.10540	0.14301	PRKATSHUP	0.37062

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.70491	56.2	56.2
2	1.40592	16.0	73.0
3	1.10896	14.2	87.2

TABLE C-23

Factor Matrix for Car:
Huntington Beach Shopping Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	VARIABLE	COMMUNALITY
GRATUIT	-0.08912	0.06517	0.05006	0.02946	0.44129	GRATUIT	0.21039
CONVERTED	-0.12054	0.72074	-0.03195	-0.17391	0.10633	CONVERTED	0.60190
SKENFLEX	-0.06126	0.59531	-0.24205	-0.12066	0.02710	SKENFLEX	0.43767
TIRING	0.05132	-0.24000	0.18973	0.14106	-0.13420	TIRING	0.33936
DANGER	0.66401	-0.09316	0.03613	-0.10161	-0.25402	DANGER	0.55003
LATCHORY	0.13751	0.00454	0.35155	-0.02001	0.05210	LATCHORY	0.14606
RAINKELEY	0.32003	-0.25037	0.51143	-0.00610	0.10662	RAINKELEY	0.44705
PACKAGES	0.01317	0.26955	-0.57300	-0.23707	0.14340	PACKAGES	0.47042
QUIMPY	0.32510	-0.16942	0.30092	0.04597	0.09079	QUIMPY	0.24170
SPEED	-0.07360	0.24050	-0.37321	-0.37800	0.29374	SPEED	0.43310
MUGGED	0.57503	-0.01093	0.23700	0.27190	0.04690	MUGGED	0.46370
INJURY	0.70035	0.01765	0.10490	0.11414	-0.16666	INJURY	0.61215
RELAX	-0.23440	0.12540	-0.00465	-0.17913	0.64574	RELAX	0.51970
INSCIDLY	0.55946	-0.00614	0.06059	0.03596	-0.17295	INSCIDLY	0.35417
PRKEXPNS	0.39450	-0.15016	0.17296	0.35791	0.33267	PRKEXPNS	0.44607
WKAFFPRK	0.40309	-0.17141	0.11347	0.51242	0.26495	WKAFFPRK	0.53016
THEFT	0.60156	-0.00152	0.10142	0.36332	0.09199	THEFT	0.51263
COST	0.02110	0.01314	0.29367	-0.01200	0.24720	COST	0.14014
PRKATSHIP	-0.06473	0.16289	0.04501	-0.54360	0.16252	PRKATSHIP	0.35475

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.17164	53.2	53.2
2	1.20742	16.4	69.7
3	1.25016	16.1	85.7

TABLE C-24

Factor Matrix for Bus:

Columbus Shopping Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	VARIABLE	COMMUNALITY
GREATOUT	-0.19201	0.65003	-0.07637	-0.01368	0.02350	GREATOUT	0.45326
CHVERRND	0.13970	0.51200	-0.07413	0.02209	-0.10030	CHVERRND	0.32317
SKTOFLEX	-0.07435	-0.06229	0.37410	-0.10105	0.15766	SKTOFLEX	0.10465
TIRING	0.27024	-0.19147	0.45170	0.02060	0.22059	TIRING	0.37000
DANGER	0.57174	-0.02342	0.00029	0.30126	0.21064	DANGER	0.47245
LATCHMOP	-0.00274	-0.09323	0.09434	0.01944	0.36700	LATCHMOP	0.15326
RAINRELY	0.06406	-0.24546	0.45317	0.19654	0.11944	RAINRELY	0.32261
PACKAGES	0.00052	0.41042	-0.20521	-0.21070	-0.19494	PACKAGES	0.29639
BUMPY	0.33762	0.05900	0.14372	0.45249	0.26630	BUMPY	0.41380
SPLCO	-0.00074	0.37064	-0.24217	-0.02251	-0.04873	SPLCO	0.19090
MUGGED	0.71754	-0.00040	0.11370	0.18352	-0.17263	MUGGED	0.59127
INJURY	0.00621	-0.23570	0.05420	0.06005	-0.17132	INJURY	0.74147
RELAX	-0.24497	0.61170	-0.21976	-0.10252	-0.00769	RELAX	0.49306
INSCOTLY	0.24249	-0.24706	0.36160	0.20494	0.30754	INSCOTLY	0.44270
OSTTOBUS	0.35901	-0.15007	0.57396	0.19140	-0.21013	OSTTOBUS	0.56493
BUSWAIT	0.04556	-0.43941	0.54435	0.12211	0.06174	BUSWAIT	0.51064
SWEAT	0.16080	-0.16037	0.02730	-0.75159	-0.04135	SWEAT	0.61092
COST	-0.35405	-0.01103	-0.00747	-0.00270	-0.14732	COST	0.14724

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.00352	53.2	53.2
2	1.62043	22.2	75.4
3	0.75801	10.4	85.8

TABLE C-25

Factor Matrix for Bus:

Denver Shopping Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	VARIABLE	COMMUNALITY
GREATOUT	-0.09129	-0.03805	0.70530	GREATOUT	0.50722
CHVFRND	0.06450	-0.45304	0.36730	CHVFRND	0.34433
SKDFLEX	-0.07612	0.47249	0.01094	SKDFLEX	0.22940
TIRING	0.44482	0.45581	-0.18491	TIRING	0.43982
DANGER	0.74150	0.01398	-0.02061	DANGER	0.55044
LATEWRY	0.29613	0.22105	-0.13324	LATEWRY	0.15431
RAINFRELY	0.33944	0.39938	-0.12524	RAINFRELY	0.29041
PACKAGES	-0.38057	-0.43347	0.22027	PACKAGES	0.38125
BUMPY	0.51159	0.09009	-0.09721	BUMPY	0.27929
SPEED	0.01896	-0.54693	0.39766	SPEED	0.45763
MUGGED	0.65990	0.02200	-0.06774	MUGGED	0.44054
INJURY	0.02140	-0.10020	-0.00713	INJURY	0.68493
RELAX	-0.13572	-0.24433	0.69302	RELAX	0.55958
INSCIDLY	0.50096	0.25526	-0.10675	INSCIDLY	0.35100
DSITORUS	0.38554	0.44869	0.00345	DSITORUS	0.35308
BUSWAIT	0.17564	0.56740	-0.12454	BUSWAIT	0.36040
SWEAT	0.60551	0.13625	0.04412	SWEAT	0.30716
COST	-0.20077	-0.08136	0.21015	COST	0.12961

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.31913	62.5	62.5
2	1.03716	26.6	89.1
3	0.75201	10.9	100.0

TABLE C-26

Factor Matrix for Bus:
Huntington Beach Shopping Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	VARIABLE	COMMUNALITY
GRATUIT	-0.03202	0.50276	-0.06022	-0.10417	GRATUIT	0.35560
CONVRRND	0.14254	0.35095	-0.20536	-0.03562	CONVRRND	0.19260
SKEDFLEX	0.02350	0.06154	0.39616	0.33011	SKEDFLEX	0.27561
TIRING	0.20774	-0.37010	0.17575	0.41653	TIRING	0.42415
DANGER	0.73279	-0.13302	-0.02444	0.07054	DANGER	0.56046
LATEWORY	0.10369	-0.25326	0.20005	0.51033	LATEWORY	0.37567
RAINRELY	0.04359	-0.12392	0.11900	0.57141	RAINRELY	0.35012
PACKAGES	-0.19325	0.46900	-0.07691	-0.20834	PACKAGES	0.30576
PUMPY	0.70161	-0.10663	0.05076	-0.05000	PUMPY	0.51055
SPEED	-0.01049	0.45514	-0.45764	-0.17995	SPEED	0.44931
MUGGED	0.67071	-0.01636	0.12500	0.15301	MUGGED	0.48960
INJURY	0.76176	-0.09143	-0.03157	-0.00550	INJURY	0.50967
RELAX	-0.07601	0.60001	-0.04511	-0.00021	RELAX	0.47700
INSCIDLY	0.40051	-0.29200	0.36434	0.09271	INSCIDLY	0.39353
OSTTORUS	0.00212	-0.05756	0.38006	0.10092	OSTTORUS	0.17004
BUSWAIT	0.00339	-0.16060	0.02700	0.10030	BUSWAIT	0.73249
SWEAT	0.50471	0.03673	0.13763	0.17100	SWEAT	0.30426
COST	-0.10210	0.42793	-0.00643	-0.02210	COST	0.19410

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.01947	53.3	53.3
2	1.04917	25.0	79.2
3	0.96000	13.4	92.6

TABLE C-27

Factor Matrix for Walk:
Columbus Shopping Trips

VARIABLE ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	VARIABLE	COMMUNALITY
GREATOUT	-0.17131	0.32662	0.20269	0.03679	0.73753	GREATOUT	0.72242
CNVERRND	-0.13163	0.16926	0.52606	-0.10060	0.15193	CNVERRND	0.35593
SKEDFLEX	-0.07762	0.20371	0.74060	0.06003	0.01520	SKEDFLEX	0.60100
TIRING	0.35371	-0.64922	-0.07667	0.12260	-0.01041	TIRING	0.56706
DANGER	0.64254	-0.09602	-0.11354	0.40616	-0.22953	DANGER	0.72401
LATEMORY	0.10553	-0.14013	0.01045	0.36500	0.05516	LATEMORY	0.16774
RAINRELY	0.17951	-0.29153	-0.17109	0.39937	-0.09905	RAINRELY	0.31623
PACKAGES	-0.01657	0.57103	0.13499	-0.13309	0.15473	PACKAGES	0.30543
RUPPY	0.64637	-0.14560	-0.07019	0.05461	0.02940	RUPPY	0.44096
SPEED	-0.00212	0.59774	0.27531	-0.16632	-0.00046	SPEED	0.46757
MUGGER	0.45749	-0.10360	-0.02300	-0.04773	0.01005	MUGGER	0.24590
INJURY	0.75104	-0.06730	-0.04000	0.12767	-0.20207	INJURY	0.62740
RELAX	-0.21307	0.50606	0.12604	0.07299	0.31126	RELAX	0.50696
INSCIDLY	0.66066	-0.09352	-0.12004	0.04913	-0.11417	INSCIDLY	0.40790
UNSAFE	0.55665	-0.06106	-0.10769	0.43411	-0.11552	UNSAFE	0.55071
INCONSID	0.52750	-0.06365	-0.03935	0.36597	-0.05715	INCONSID	0.42106
SWEAT	0.43326	-0.30399	-0.13406	-0.04300	0.22016	SWEAT	0.35229
HEALTHY	-0.17613	0.23502	0.20453	0.35750	0.00772	HEALTHY	0.26359

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.75020	57.9	57.9
2	1.53093	10.6	76.6
3	0.70160	0.5	85.1

TABLE C-28

Factor Matrix for Walk:
Denver Shopping Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	VARIABLE	COMMUNALITY
GREATOUT	0.70494	-0.20413	-0.14931	-0.10243	GREATOUT	0.59417
CWVERRRND	0.69630	0.07930	-0.04661	-0.20596	CWVERRRND	0.53572
SKEDFLEX	0.63322	-0.00032	-0.03490	-0.05027	SKEDFLEX	0.41204
TIRING	-0.10015	0.44684	-0.01660	0.60210	TIRING	0.59493
DANGER	-0.04434	0.47707	0.54167	0.24000	DANGER	0.50100
LATEMORY	-0.05405	0.07715	0.07617	0.59537	LATEMORY	0.36915
RAINRELY	-0.16369	0.03075	0.00095	0.40463	RAINRELY	0.26260
PACKAGES	0.34942	-0.02741	-0.05149	-0.42967	PACKAGES	0.31011
BUMPY	-0.19212	0.55996	0.11623	0.10043	BUMPY	0.39000
SPEED	0.45539	0.02425	-0.10479	-0.47250	SPEED	0.44221
RUGGED	-0.00013	0.55534	0.25027	-0.06045	RUGGED	0.30653
INJURY	-0.09765	0.49205	0.56230	-0.05070	INJURY	0.57129
RELAX	0.66650	-0.27056	-0.12062	-0.20101	RELAX	0.62007
INSCIDLY	-0.11003	0.41564	0.32109	0.27727	INSCIDLY	0.36502
UNSAFE	-0.13542	0.29022	0.65300	0.13452	UNSAFE	0.54022
INCONSID	-0.02092	0.13122	0.01402	-0.01324	INCONSID	0.68176
SUFAT	-0.06897	0.49069	0.17989	0.05751	SUFAT	0.20912
HEALTHY	0.62930	-0.31607	0.04180	-0.00319	HEALTHY	0.50520

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.07210	57.5	57.5
2	2.06957	24.4	81.9
3	0.09302	10.5	92.4

TABLE C-29

Factor Matrix for Walk:
Huntington Beach Shopping Trips

VARIMAX ROTATED FACTOR MATRIX

	FACTOR 3	FACTOR 4	FACTOR 5	VARIABLE	COMMUNALITY
GRF		-0.04093	0.33419	GRFATOUT	0.46389
CHV		-0.00707	0.59003	CHVEHND	0.57400
SFE		0.01217	0.55010	SKDOFLEX	0.39172
IRR		0.03955	-0.01353	TIRING	0.51955
DAG		0.46327	-0.12630	DAGGER	0.63049
LAT		0.10154	-0.19309	LATEJORY	0.20070
RAT		0.01204	-0.13200	RAINRCLY	0.36120
PCK		-0.10019	0.26555	PKKAGFS	0.36676
RUH		0.11103	-0.10419	RUHPPY	0.30697
SPE		-0.00625	0.10345	SPEFO	0.44259
FLG		0.56122	0.02034	FLUGGCD	0.37065
INJ		0.80035	-0.01010	INJURY	0.54250
REL		-0.05969	0.10904	RELAX	0.80799
INS		0.11170	-0.10320	INSCIDLY	0.44551
UNS		0.06699	0.01572	UNSAFE	0.62722
TRC		0.33540	-0.00909	TRCCHUSU	0.61422
SWE		0.09919	0.04519	SWEAT	0.32062
HEA	0.00007	-0.17676	0.13301	HEALTHY	0.29049

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.74780	54.6	54.6
2	2.03006	23.4	78.1
3	0.77310	8.9	86.9

DOT LIBRARY

00057934